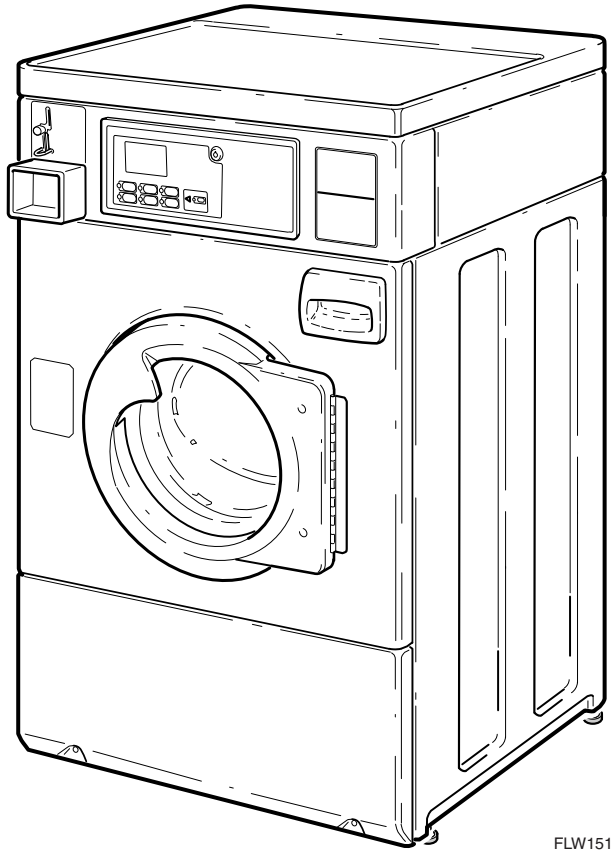
Commercial Front Control Washers

Refer to Page 6 for Model Numbers



FLW1510C

Service

Alliance Laundry Systems

www.comlaundry.com

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Section 1
Safety Information

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION," "WARNING," and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

⚠ DANGER

Danger indicates the presence of a hazard that **will** cause **severe** personal injury, death or substantial property damage if the danger is ignored.

WARNING

Warning indicates the presence of a hazard that **can** cause **severe** personal injury, death or substantial property damage if the warning is ignored.

CAUTION

Caution indicates the presence of a hazard that **will** or **can** cause **minor** personal injury or property damage if the caution is ignored.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT

The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE

The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

WARNING

- **Failure to install, maintain and/or operate this product according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.**
- **Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and unless you understand and have the skills to carry out the servicing.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury or death.**

W006R2

(continued)

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you or the inexperienced person making such repairs to the risk of serious injury, electrical shock or death.

W007

WARNING

If you or an unqualified person perform service on your product, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W008

NOTE: The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the washer.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

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Section 2
Introduction

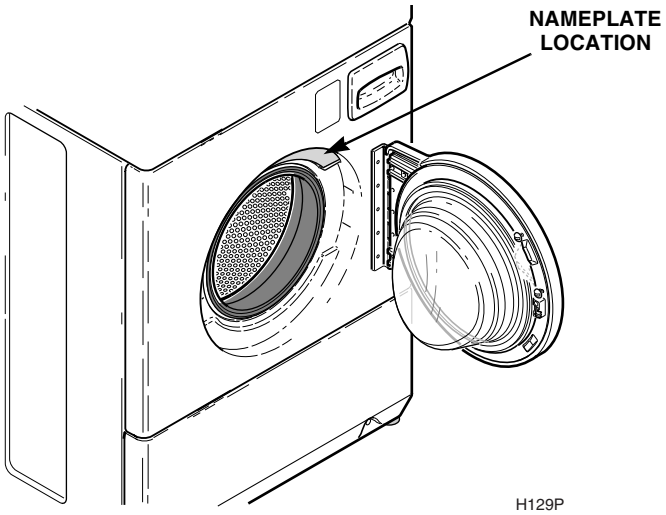
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



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Model Identification

Information in this manual is applicable to these washers.

MODEL NUMBER	COIN DROP INSTALLED	COIN DROP READY	CARD READER INSTALLED	CARD READER READY
HWF561*E1102	X			
HWF561*H1102	X			
HWF761*E1102			X	
HWFB61*J1102	X			
HWFF61*J1102			X	
HWFT61*H	X			
HWFT61*H1102	X			
HWFX61*H1102		X		
HWFY61*H1102				X
HWFZ61*H	X			
HWFZ61*H1102	X			
SWF561*E	X			
SWF561*H	X			
SWF661*E				X
SWF661*H				X
SWF761*E			X	
SWF761*H			X	
SWFA61*H		X		
SWFA61*J		X		
SWFB61*H	X			
SWFB61*J	X			
SWFC61*H				X
SWFC61*J				X
SWFD61*H			X	
SWFF61*J			X	
SWFH61*J	X			
SWFJ61*J			X	
SWFT61*H	X			
SWFX61*H		X		
SWFY61*H				X
SWFZ61*H	X			

* Add Letter To Designate Color. L – Almond W – White Q – Bisque

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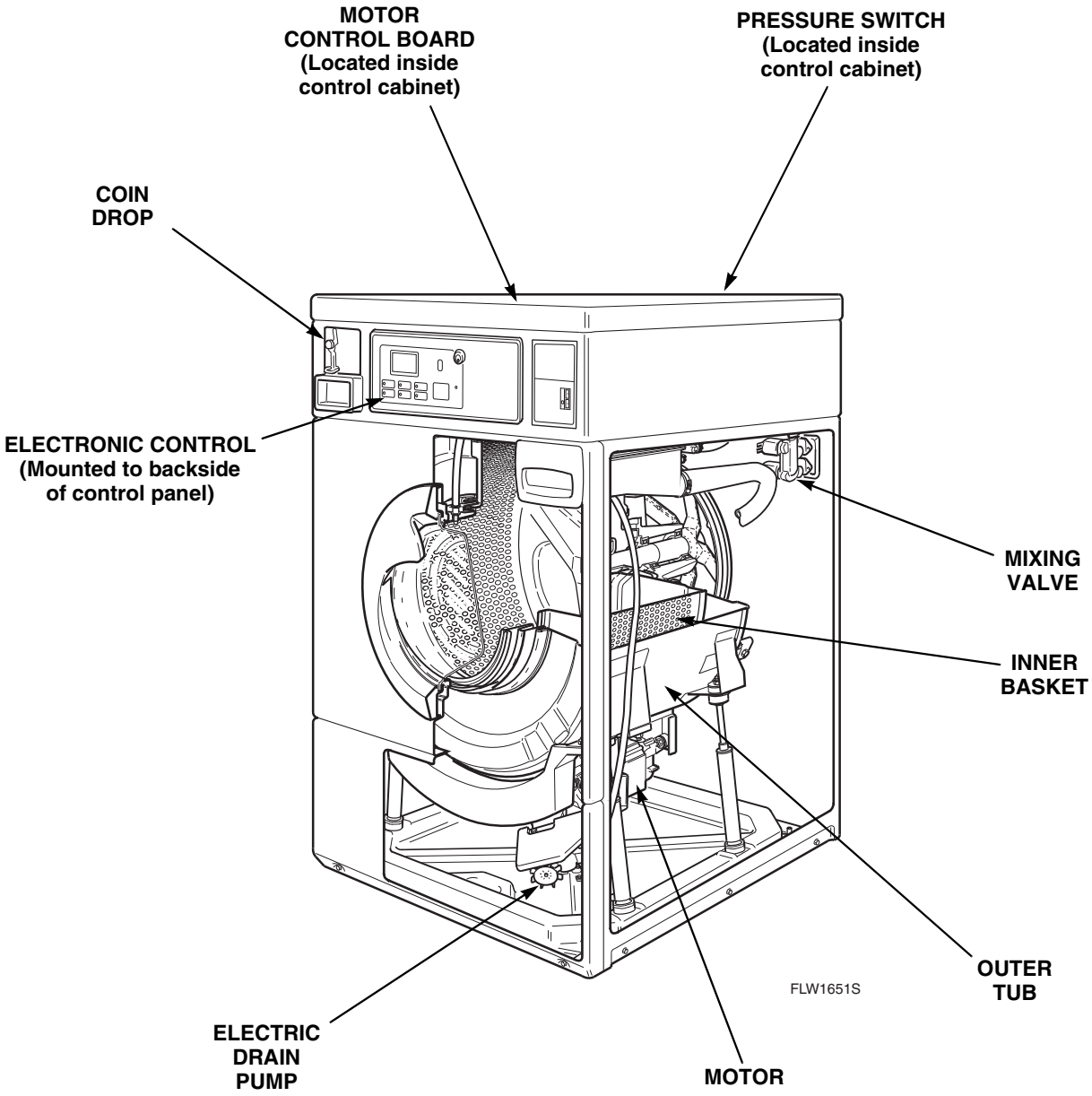
How Your Washer Works



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General

This frontload washer provides some of the same principles of operation as the typical topload washer. It senses water level, dispenses the desired laundry detergent, agitates the clothes for good cleaning action, pumps the water out of the washer and spins the clothing in preparation for the dryer.

The difference in operation is primarily the rotational washing agitation created for the horizontal basket and drum. This agitation tumbles the clothes in a clockwise, pause, and counter-clockwise direction. This reversing tumbling action provides an efficient washing process and requires less laundry detergent and less water.

The cycle begins by locking the loading door after the vend is satisfied. The type of cycle and water temperature are determined by the appropriate pads on the electronic control.

The inner basket starts agitating during the wash water fill. A column of air is trapped in a pressure bulb and hose. The air pressure continues to increase as the inner basket fills with water until it is great enough to activate the pressure switch which then causes the wash fill to stop.

The agitate cycle tumbles the clothing in a clockwise direction for a period of 20 seconds, pauses for 9 seconds and then tumbles the clothing in a counterclockwise direction for 10 seconds. This agitation continues until the wash soak cycle. The machine stops agitating and turns on the pump which removes the wash water.

Upon completion of the wash cycle, the machine goes into a rinse cycle. Fresh cold water is brought into the inner basket via the mixing valve until the pressure switch shuts off the water while agitating. The rinse cycle consists of agitation for a predetermined amount of time and then a spin mode with the pump running where the machine goes into a series of 4 short 500 RPM spins. Two of these rinse cycles will normally take place. A third extra rinse cycle is optional.

After all the rinse cycles have been completed, the washer goes into a final high spin cycle to extract as much water as possible from the clothing to prepare them for the dryer. The spin speeds and duration of this final high spin cycle are determined by the type of wash cycle selected (refer to table).

NOTE: Washer may not reach 1000 RPM because of an out-of-balance condition. Control may limit speed to 850, 650 or 500 RPM depending on severity of out-of-balance condition.

	Regular	Perm Press	Delicate
650 RPM	5-1/2 minutes	6 minutes	4 minutes
1000 RPM	1-1/2 minutes	1 minute	0 minutes

Technical

The basic operational system of this washer consists of the electronic front-end control, the motor control, pressure switch, water valves, electric pump, D.C. motor and transformer.

The front end control performs all control and timing functions like the timer in a topload washer. The front end control sends simple speed and output commands to the motor control via serial communication. The front end control powers the door lock, pump and the motor control.

The motor control powers the D.C. motor and performs all motor control functions. The motor control also powers the water and dispenser valves and passes the pressure switch status to the front end control. The motor control is powered through the door switch, door lock switch and front end control. An auto transformer provides 240 VAC for the motor which the motor control converts to D.C. The motor control also alerts the front end control to any errors in the motor.

The motor control uses a speed sensor on the motor to measure the drum RPM. Before entering any spin step the motor control measures the RPM of the drum to sense out-of-balance. The motor control will try to redistribute the clothes if an out-of-balance condition exists. The motor control will limit the spin speed to several speeds depending on the severity of the out-of-balance condition. If the out-of-balance condition is severe enough, the motor control will limit speed to 90 RPM and will not spin.

NOTE: An additional out-of-balance switch is used to detect any out-of-balance condition during spins. If this switch opens during a spin step the motor control immediately stops and restarts the spin step.

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Section 3
Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

1. TROUBLESHOOTING COIN DROP

a. Non-Electronic Coin Drops:

When coin is placed into coin slot, the coin should roll down drop and be heard dropping into coin vault. If coin does not fall into coin vault or if coin drop sensor does not register that coin has been entered, follow troubleshooting instructions on following page. Refer to *Figure 1* for path that coin follows when working properly.

IMPORTANT: Never use oil to correct coin drop problems. Oil residue will prevent coins from rolling properly.

IMPORTANT: Do not bend or damage mechanical parts within coin drop.

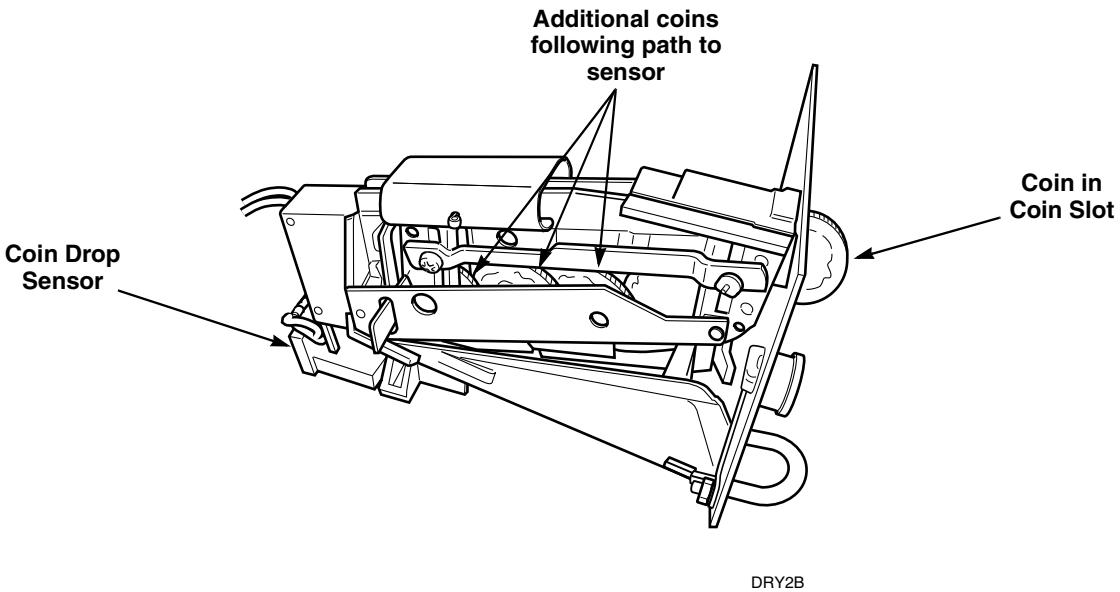

Figure 1

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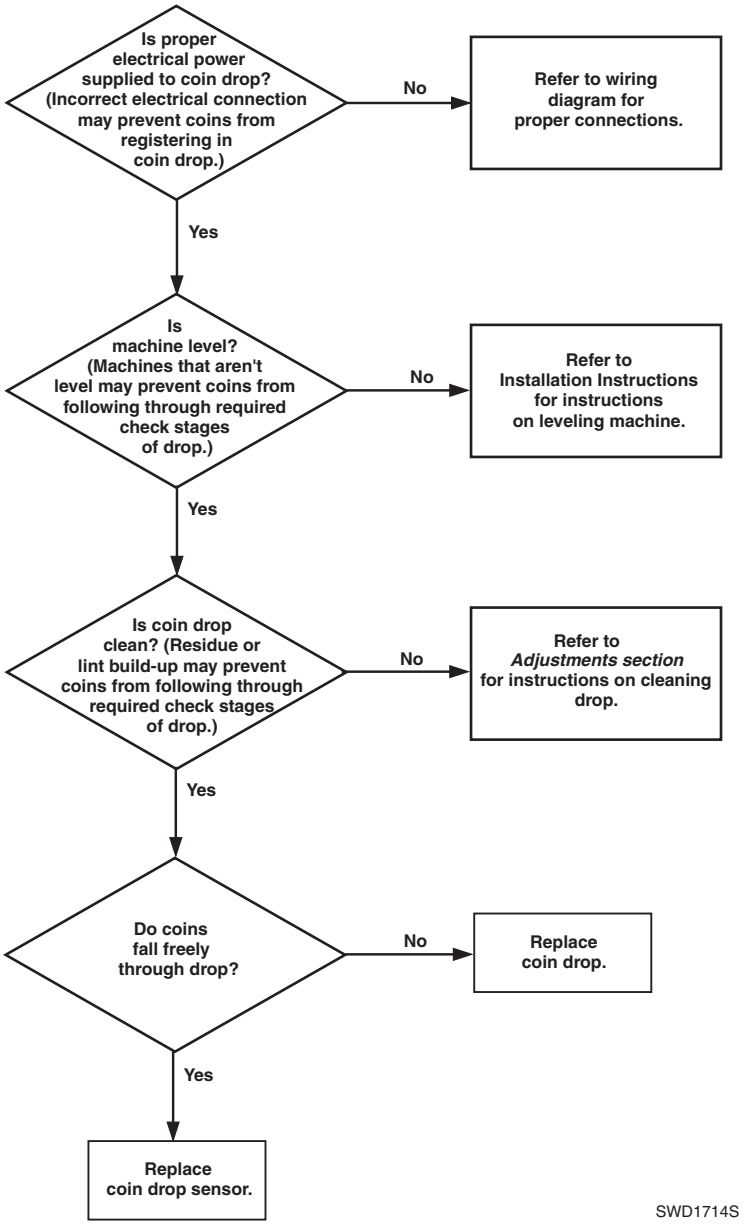
1. TROUBLESHOOTING COIN DROP (continued)


Is proper electrical power supplied to coin drop? (Incorrect electrical connection may prevent coins from registering in coin drop.)
No
Refer to wiring diagram for proper connections.
Yes
Is machine level? (Machines that aren't level may prevent coins from following through required check stages of drop.)
No
Refer to Installation Instructions for instructions on leveling machine.
Yes
Is coin drop clean? (Residue or lint build-up may prevent coins from following through required check stages of drop.)
No
Refer to *Adjustments section* for instructions on cleaning drop.
Yes
Do coins fall freely through drop?
No
Replace coin drop.
Yes
Replace coin drop sensor.
SWD1714S

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WARNING

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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

b. Electronic Coin Drops:

If coin drop is not accepting coins, perform the following:

(1) Clean coin drop. Refer to *Paragraph 68.*
(2) Test and replace tension spring using the following instructions.

REMOVE COIN DROP FROM MACHINE

(1) Disconnect electrical power to machine and drop.
(2) Remove coin drop from machine.

TEST TENSION SPRING

(1) Push coin return button to open and close coin drop cover to clear possible coin jams. Refer to *Figure 2*.

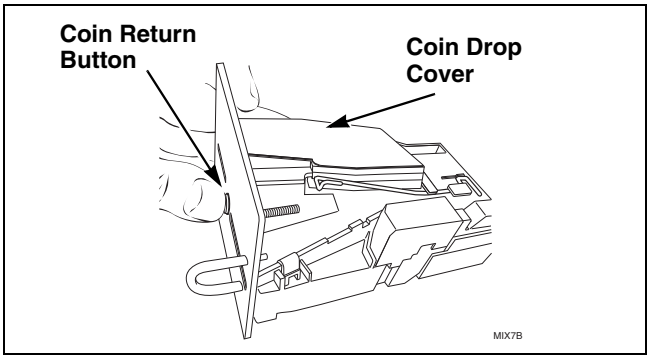

Figure 2

(2) Manually hold down coin drop cover and insert coin. Refer to *Figure 3*.

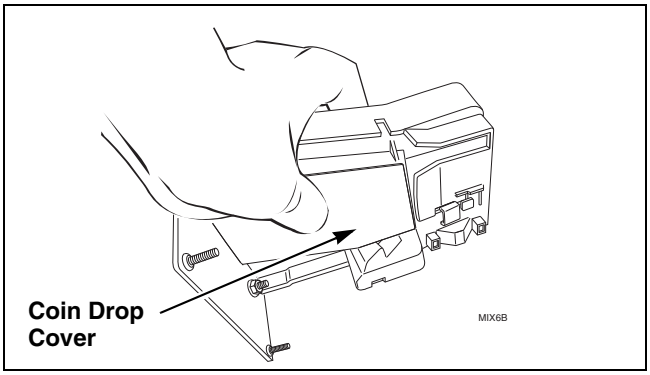

Figure 3

(3) If coin drop now operates properly, replace tension spring using instructions on following pages.

REPLACE TENSION SPRING

(1) Move tension spring downward until cover catch is free. Refer to *Figure 4*.

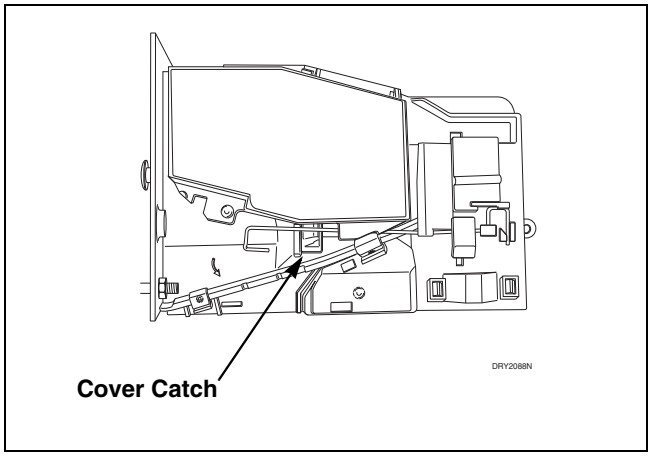

Figure 4

(2) Open cover for coin drop.
(3) Place a small flathead screwdriver under right side of tension spring and lift up. Refer to *Figure 5*.

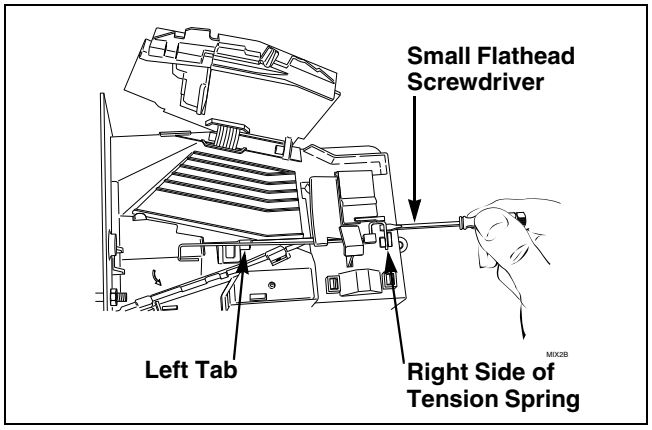

Figure 5

(4) Use screwdriver to move spring approximately 3 mm to left.

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(5) Lift spring over left tab. Refer to *Figure 5*.
(6) Rotate spring clockwise, 40 to 60 degrees, until it is free from right tabs. Refer to *Figure 6*.

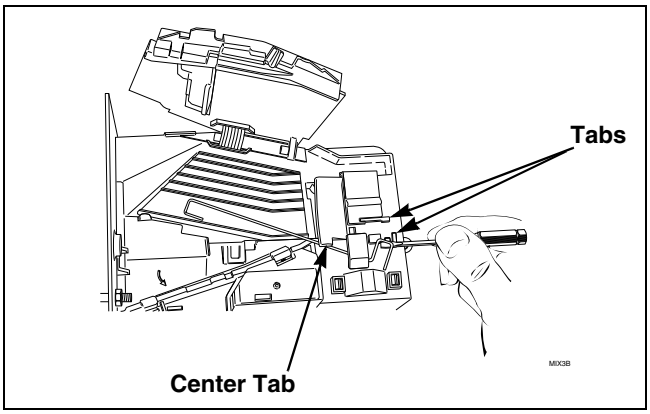

Figure 6

(7) Use screwdriver to remove spring from center tab. Refer to *Figure 6*.
(8) Lift spring, with attached clip, off drop.
(9) Remove clip from spring. Refer to *Figure 7*.

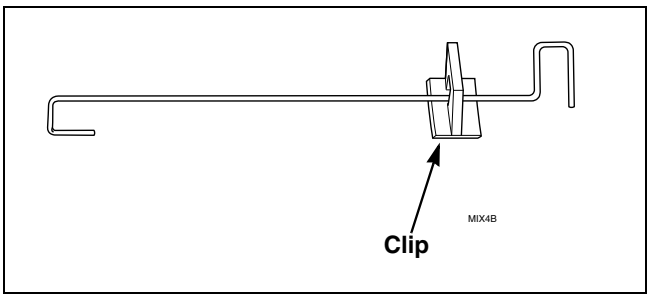

Figure 7

(10) Attach clip to new tension spring, Part No. 209/00598/02.
(11) Place clip, installed on spring, in slot on coin drop. Refer to *Figure 8*.

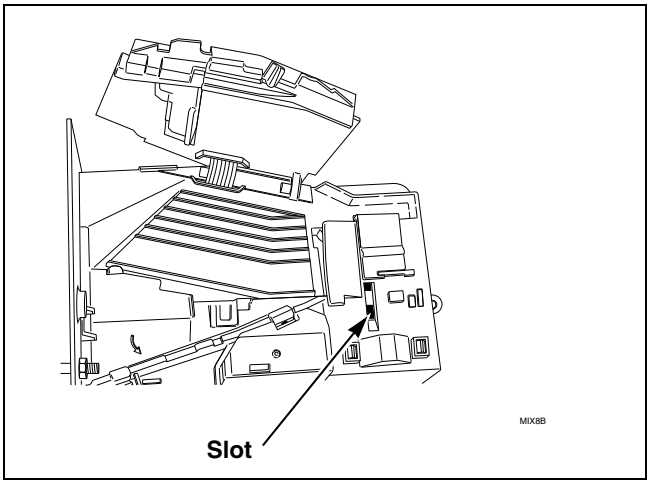

Figure 8

(12) Use a small flathead screwdriver to push spring under center tab. Refer to *Figure 9*.

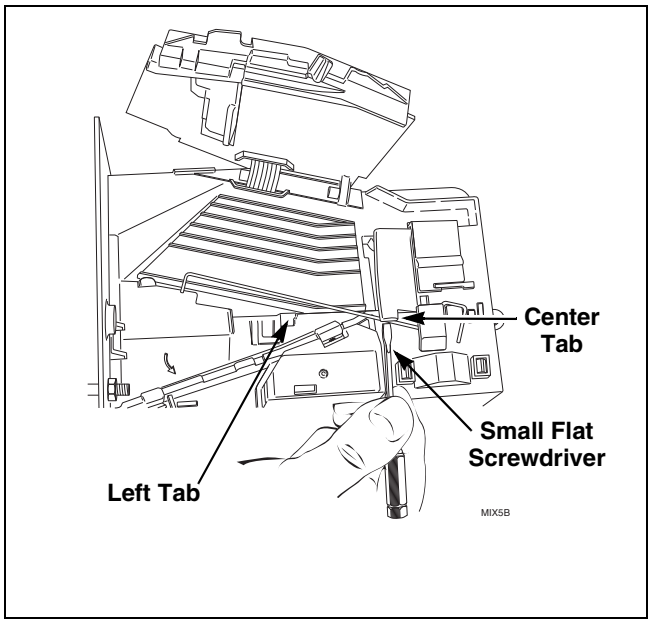

Figure 9

(13) Lift spring gently to place in position under left tab.
(14) Push spring to right until it snaps into position. Refer to *Figure 5*.
(15) Close coin drop cover.
(16) Move tension spring over cover catch. Refer to *Figure 4*.

REINSTALL COIN DROP INTO MACHINE

(1) Reinstall coin drop into machine.
(2) Reconnect electrical power to machine and drop.
(3) Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

2. NO SPIN CONDITION – MODELS THROUGH SERIAL NO. 9811005968

A "no spin" condition could be the result of an open circuit in the wire harness or out-of-balance switch.

a. Check that the harness is still connected to the out-of-balance switch. The wiring diagram may show the out-of-balance switch as a normally open switch which is incorrect. The switch is a normally closed switch.
b. To test the electrical circuit, disconnect electrical power to the washer.
c. Remove the "H3" connector from the motor control board.
d. Use an Ohm meter and check the black/white to violet/white wires. Circuit should read closed, an open reading indicates a bad switch or wire harness problem.
e. Flex the harness at the plastic retainer and test the switch and if okay, the base wire harness has an open circuit and MUST be replaced.
f. After replacing the wire harness, tape the harness wires to the left front shock 1 ½ inches from top of shock. Refer to *Figure 10*.

IMPORTANT: Leave a minimum of 8 inches of slack between tape on shock and the plastic wire retainer on the out-of-balance switch mounting bracket. Refer to *Figure 10*.

3. TROUBLESHOOTING KNOCKING NOISE

If a frontload washer produces a noise similar to a knock on a door, it might be due to a flat spot on the belt. The knocking sound is made when the flat spot hits the pulley. The knocking may occur during a pulse spin and fade after reaching a higher RPM.

To correct this condition, replace the washer belt. Refer to *Paragraph 51*.

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W003

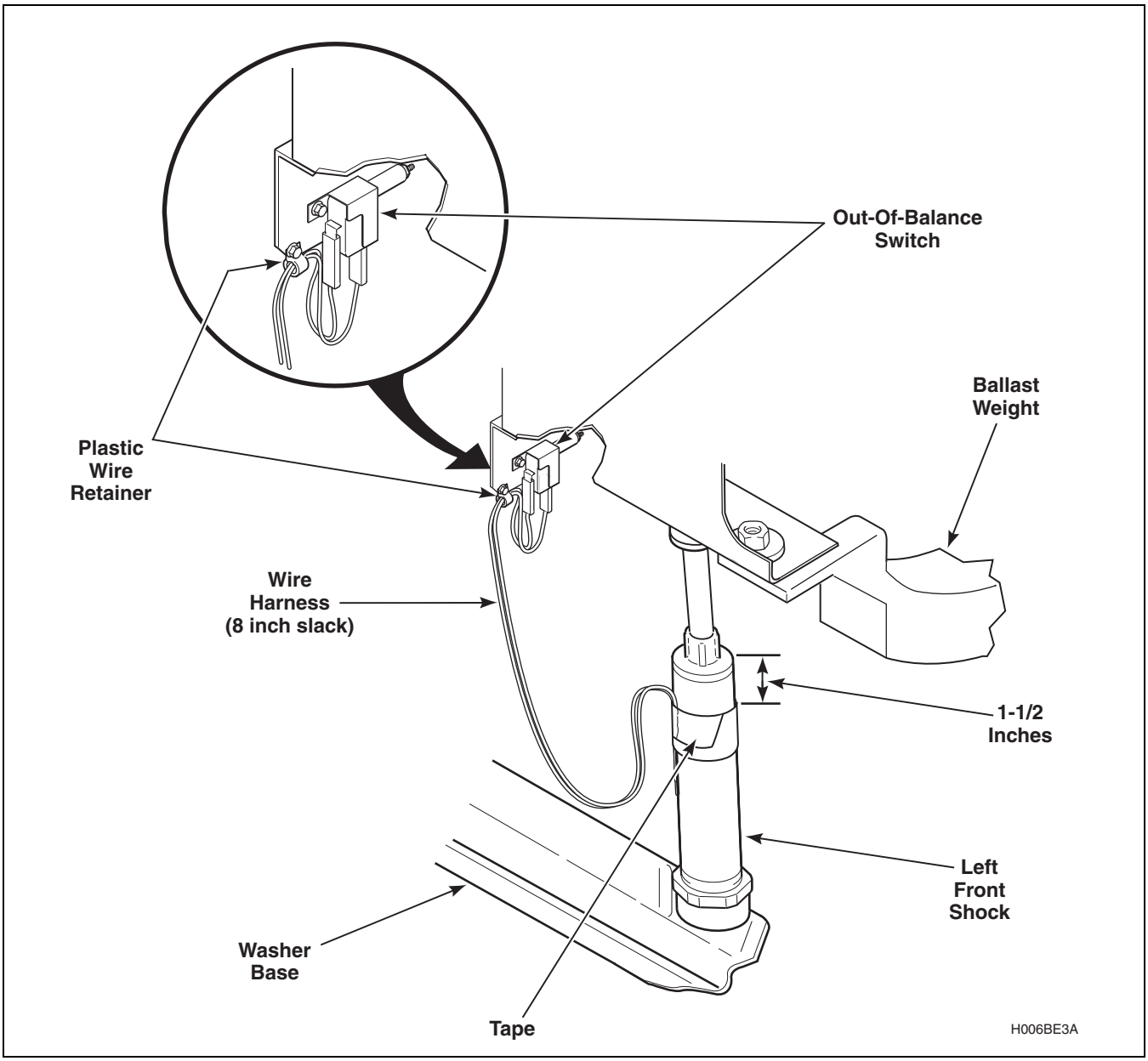

Figure 10

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WARNING

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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

4. NO MOTOR ROTATION, OR DRIVE FAILURE CODE "E:DF" ON ELECTRONIC DISPLAY UNITS

NOTE: Verify that motor is receiving proper voltage. Disconnect electrical power to washer.

TEST PROCEDURE

a. At the rear of the washer, remove the lower access panel.
b. Reach in through the access panel opening and disconnect motor wire harness from motor.
c. Using an Ohmmeter, measure resistance at the terminals on the motor. Refer to *Table 1*.

Motor Resistance Values		
TACH INPUT	Terminals 6-7	Approximately 15 Ohms
BRUSHES	Terminals 4-5	Less than 70 Ohms
WINDING	Terminals 1-3	Approximately 1.1 Ohms
WINDING	Terminals 1-2	Approximately 2.0-2.4 Ohms
WINDING	Terminals 2-3	Approximately 3.4 Ohms
NOTE: Resistance values may vary depending on type of Ohmmeter used.		

Table 1

d. Replace motor if there is an open circuit on tach input (terminals 6-7) or winding circuits (terminals 1, 2 and 3), or if there is continuity between any terminal and the motor housing.
e. An open circuit between terminals 4 and 5 indicates a stuck or worn brush. Refer to appropriate service procedure below.

SERVICE PROCEDURE: STUCK BRUSHES

a. Remove motor from washer. Refer to *Paragraph 58*.
b. Using a flashlight, view brushes through holes in motor end shield. Refer to *Figure 11*.
c. Inspect both brushes to determine if either brush braided wire is binding the brush movement. The braided wire might be snagged on the seam in the corner of the metal brush holder. Refer to *Figure 11*.

NOTE: The copper braided wire should be located in the center of the brush assembly. If the braided wire has fallen to the bottom of the brush, it will cause binding.

d. After determining which brush assembly is binding, carefully use the tip of a small screwdriver to unsnag and reposition the braided wire. Refer to *Figure 12*. Make sure spring is making unobstructed contact with the end of the brush. Rotate armature by hand to assure that brushes are seated.
e. Recheck resistance between motor terminals 4 and 5 to verify the brush position has been corrected.
f. Reinstall motor in washer.
g. Run washer through cycle to verify proper operation.

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W003

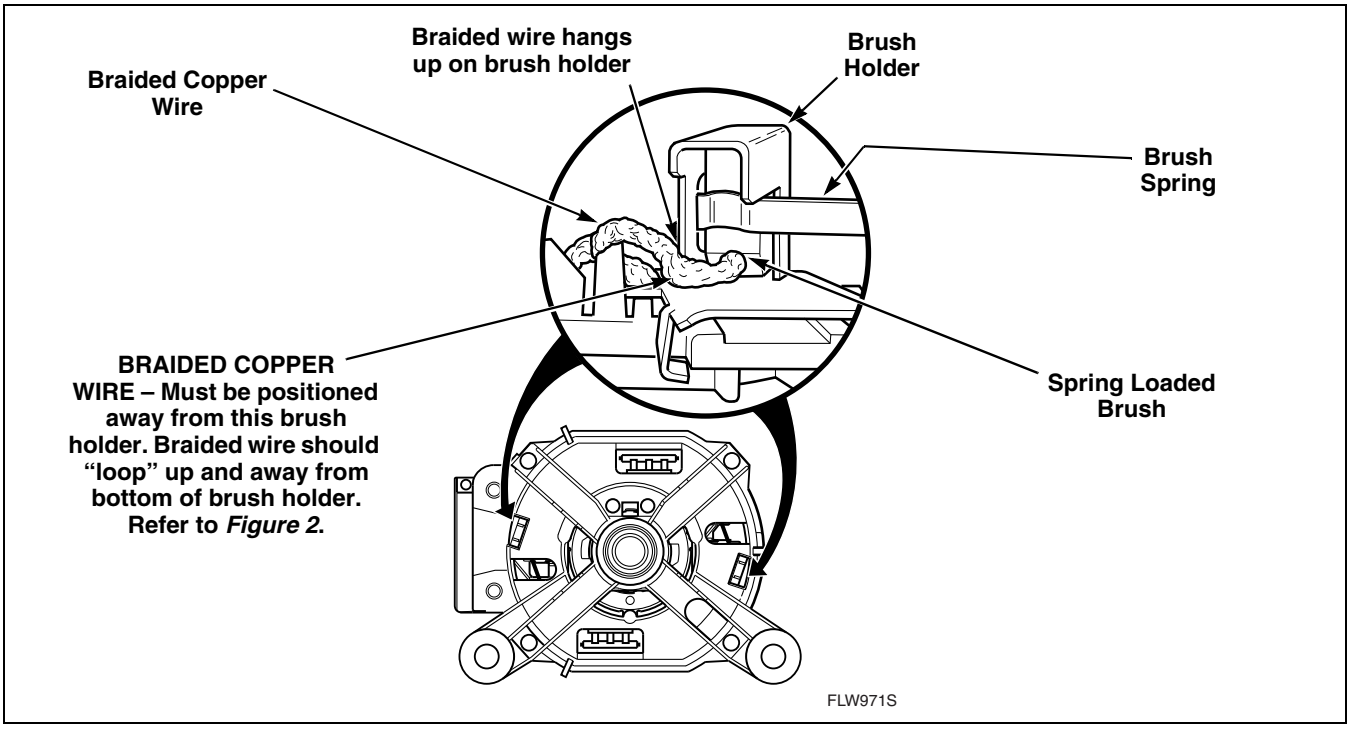
Braided wire hangs up on brush holder
Brush Holder
Braided Copper Wire
Brush Spring
BRAIDED COPPER WIRE – Must be positioned away from this brush holder. Braided wire should "loop" up and away from bottom of brush holder. Refer to *Figure 2*.
Spring Loaded Brush
FLW971S

Figure 11

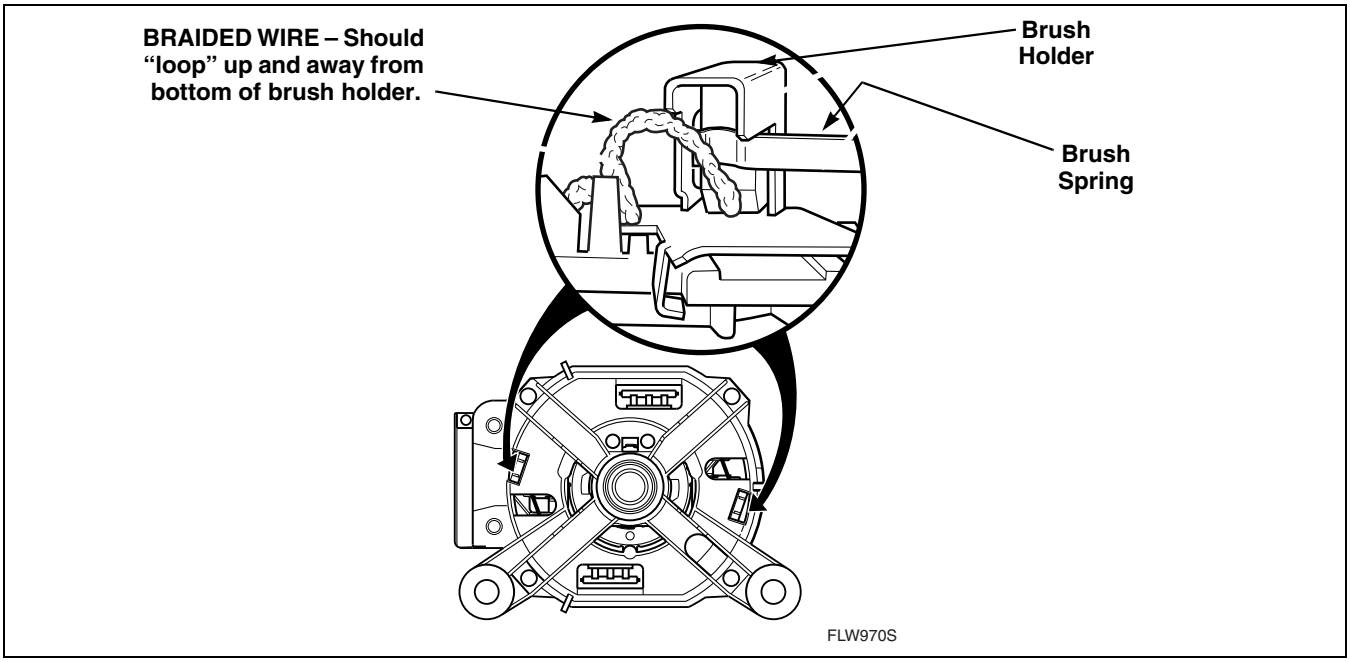

Figure 12

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

SERVICE PROCEDURE: WORN BRUSHES

a. Remove motor from washer. Refer to *Paragraph 58*.
b. Using a flashlight, view brushes through holes in motor end shield. Refer to *Figure 13*.
c. Inspect both brushes to determine if either brush is worn. Refer to *Figures 13* and *14*.

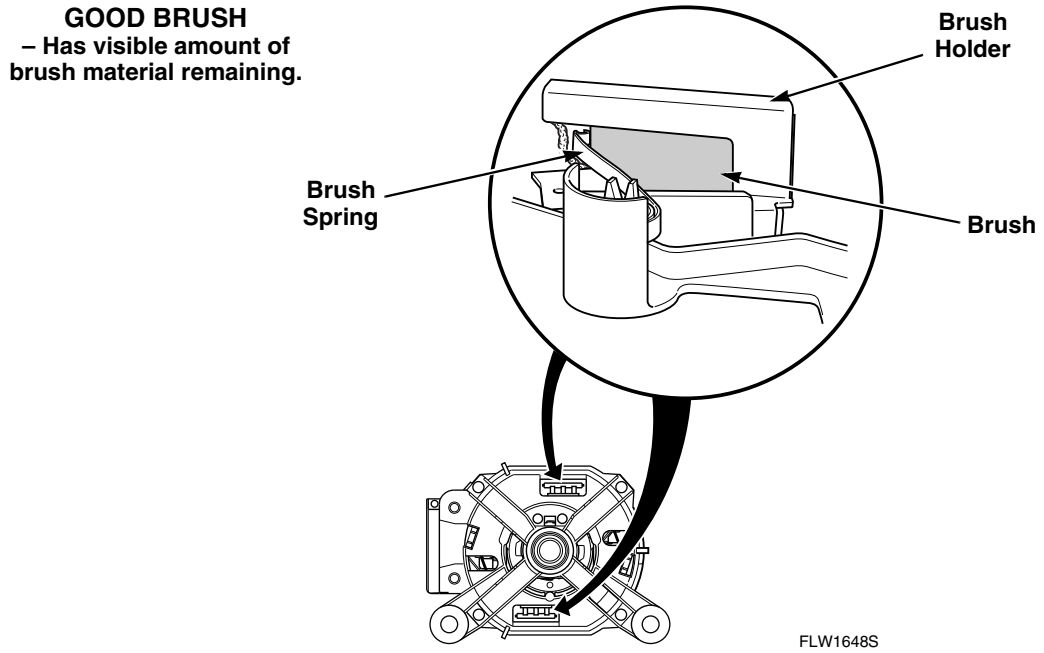

Figure 13

d. Replace worn brushes with 738P3 Motor Brush Kit. Follow instructions provided in kit.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

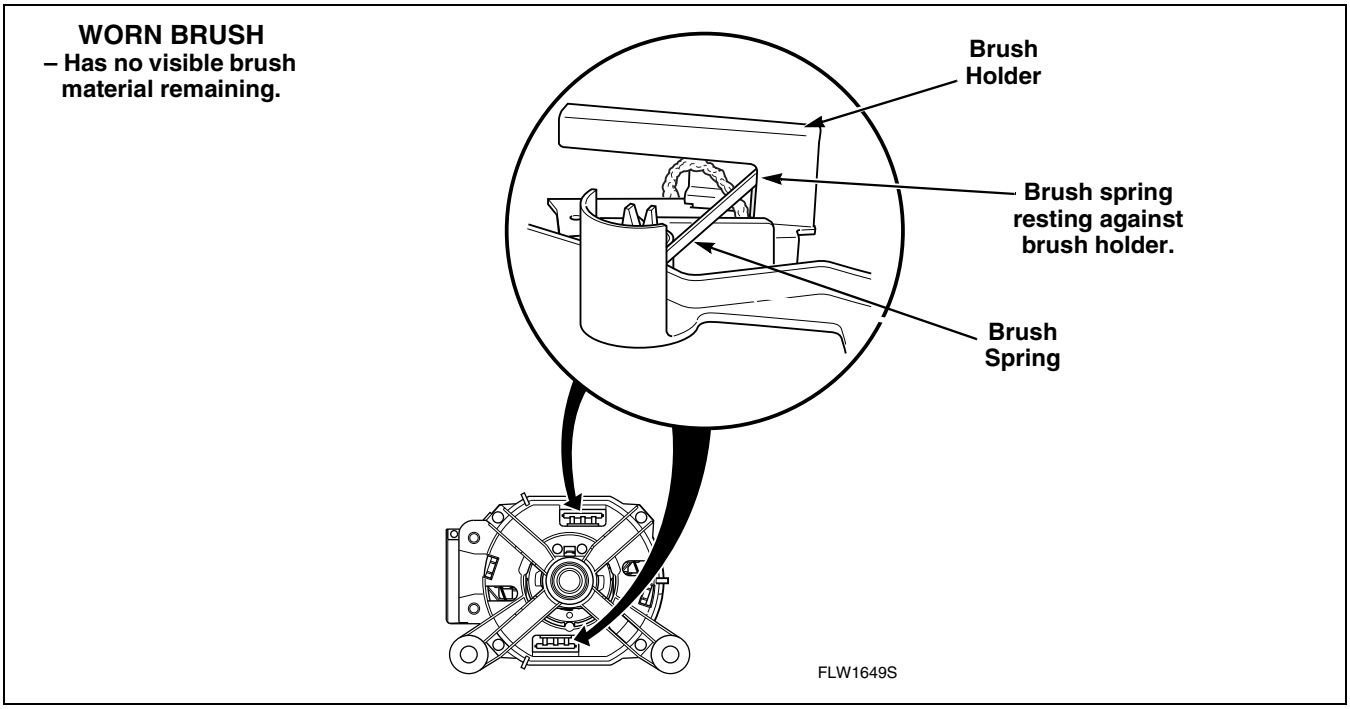

Figure 14

SERVICE PROCEDURE: CLOGGED BRUSHES

a. Remove motor from washer. Refer to *Paragraph 58*.
b. Using a flashlight, view brushes through holes in motor end shield. Refer to *Figure 13*.
c. Inspect both brushes to determine if they are clogged due to a build-up of carbon dust.
d. If there is a visible amount of brush left, use a screwdriver or similar device to push brush back and forth to loosen and remove dust. Refer to *Figure 13*.

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EDC Models

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

5. EDC ERROR CODE LISTING

E:df	Drive failure.	This error code is generated by the motor control and transmitted to the master control. Several conditions can cause this code; motor unplugged, motor failure (refer to *Paragraph 4*), tachometer circuit open, inner basket locked up. This is a fatal error. Machine must be unpowered to reset.
E:SP	Serial communication error.	This error code occurs when the master control cannot communicate with the motor control. The master control will try to reset the motor control by powering it down. It will try resetting three times before setting the error code. Common causes: transformer unplugged or defective, wiring to motor control incorrect. This is a fatal error.
E:FL	Fill error.	This error code occurs if the pressure switch fails to open in 30 minutes in any fill/agitate cycle. This is a fatal error.
dor	Door Open Indicator.	This error code occurs when the door is not closed at the start of an active cycle. If the door is closed, check for wiring or door switches.
E:do	Door open error.	This error code occurs if the control detects the door open and door locked inputs high at the same time. You can get this error if you jerk on the door when it is locked or as it is about to lock. This is a fatal error.
E:dL	Door lock error.	This error code occurs if the door does not lock in 15 seconds or unlock in 3 minutes at the end of the cycle. This is a non-fatal error. If the door locks or unlocks while E:dL is displayed it will clear the error condition. Also if the door is opened after failing to lock it will clear the display.

NOTE: If replacing an inoperative electronic control due to burnt pin(s) on the 6-pin wire harness connector block, it may be due to damaged terminals in the harness connector. Damaged terminals in the harness connector will appear burnt or show signs of heat discoloration on the connector block. Replace the control wire harness with the control to avoid repeated damage.

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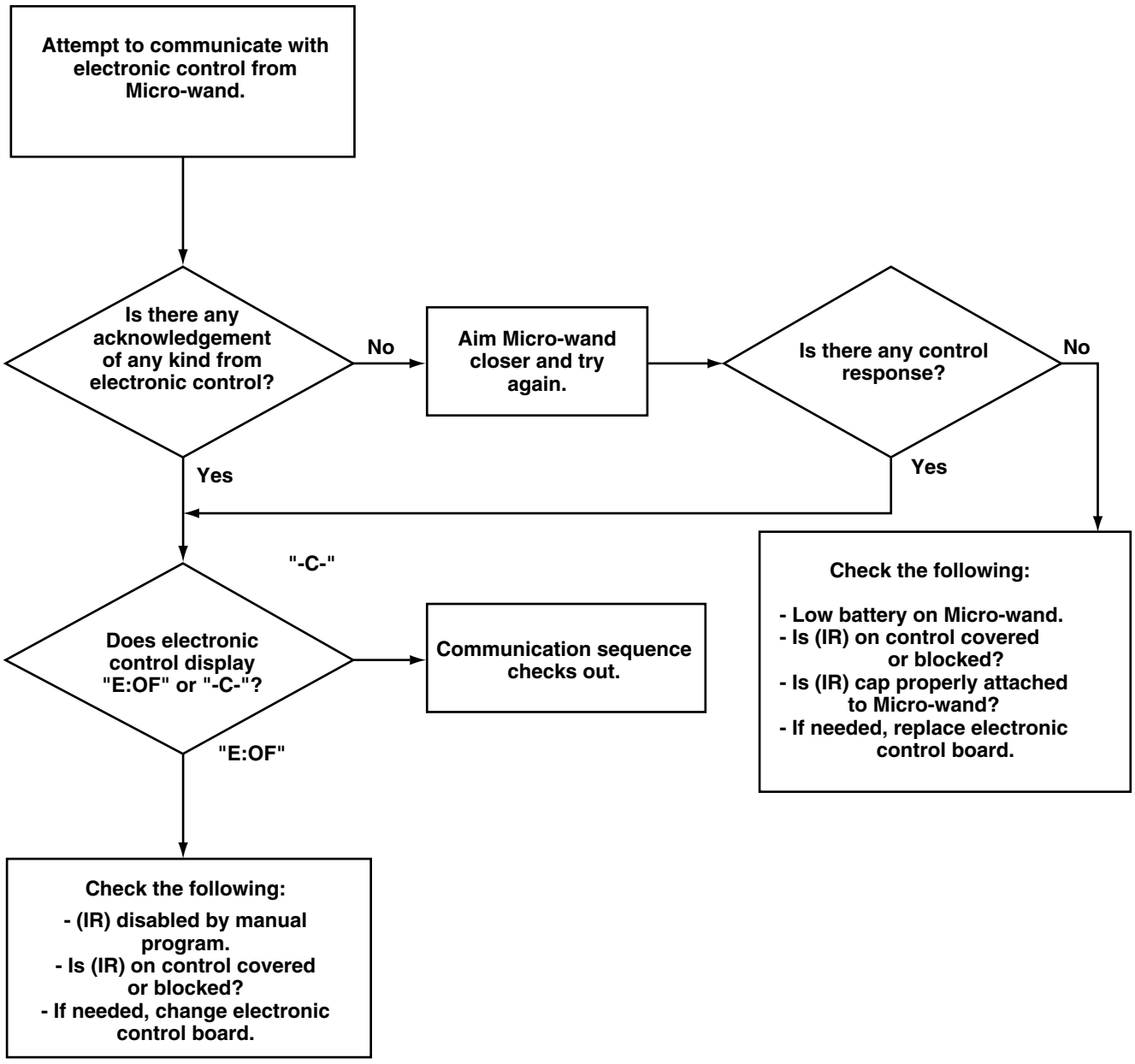
6. CANNOT PERFORM INFRARED COMMUNICATION


Attempt to communicate with electronic control from Micro-wand.
Is there any acknowledgement of any kind from electronic control?
No
Aim Micro-wand closer and try again.
Is there any control response?
No
Yes
Yes
"-C-"
Does electronic control display "E:OF" or "-C-"?
Communication sequence checks out.
Check the following:
- Low battery on Micro-wand.
- Is (IR) on control covered or blocked?
- Is (IR) cap properly attached to Micro-wand?
- If needed, replace electronic control board.
"E:OF"
Check the following:
- (IR) disabled by manual program.
- Is (IR) on control covered or blocked?
- If needed, change electronic control board.

H130S

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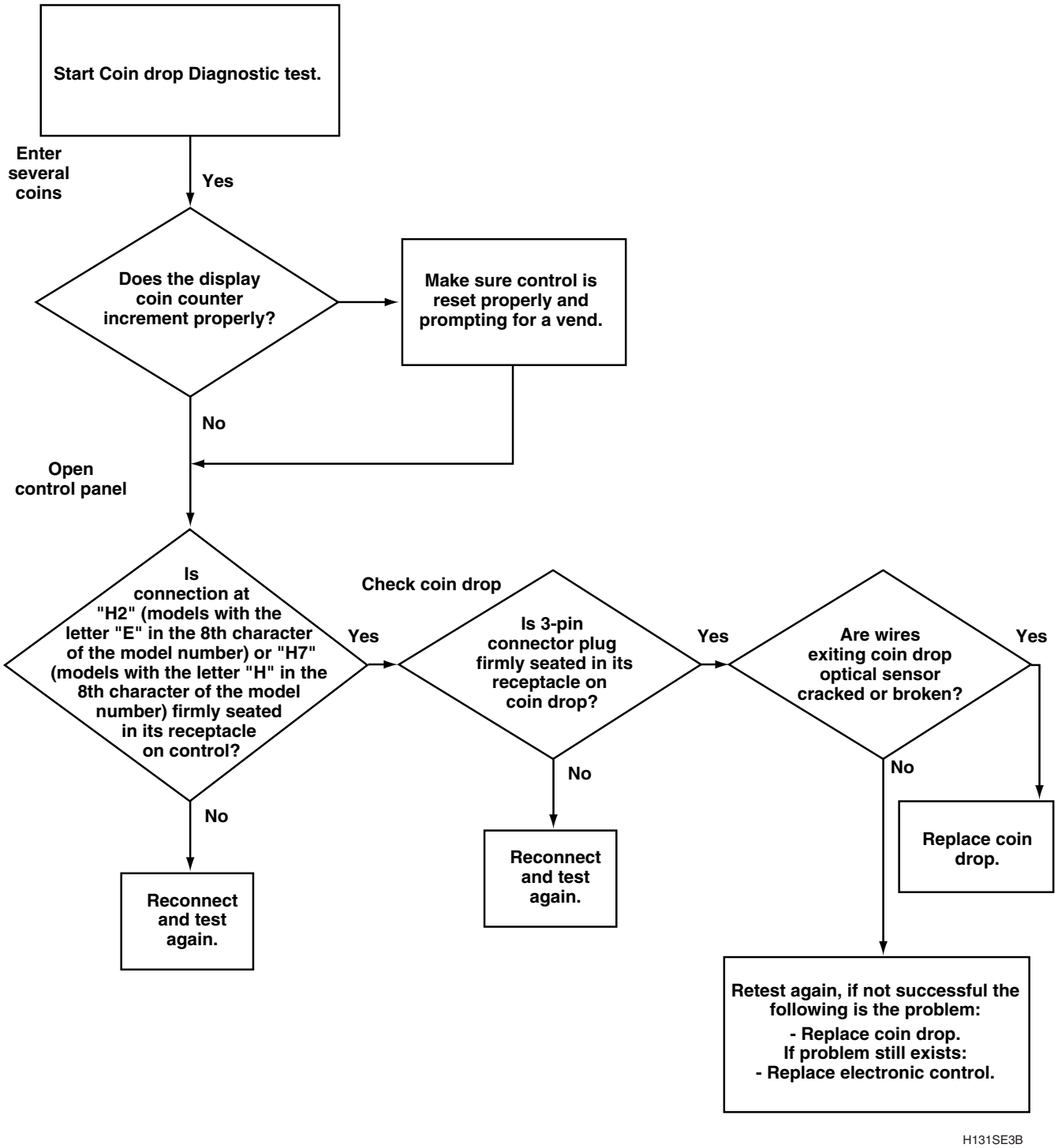
7. COINS IGNORED WHEN ENTERED


Start Coin drop Diagnostic test.
Enter several coins
Yes
Does the display coin counter increment properly?
Make sure control is reset properly and prompting for a vend.
No
Open control panel
Is connection at "H2" (models with the letter "E" in the 8th character of the model number) or "H7" (models with the letter "H" in the 8th character of the model number) firmly seated in its receptacle on control?
Yes
No
Reconnect and test again.
Check coin drop
Is 3-pin connector plug firmly seated in its receptacle on coin drop?
Yes
No
Reconnect and test again.
Are wires exiting coin drop optical sensor cracked or broken?
Yes
No
Replace coin drop.
Retest again, if not successful the following is the problem:
- Replace coin drop.
If problem still exists:
- Replace electronic control.
H131SE3B

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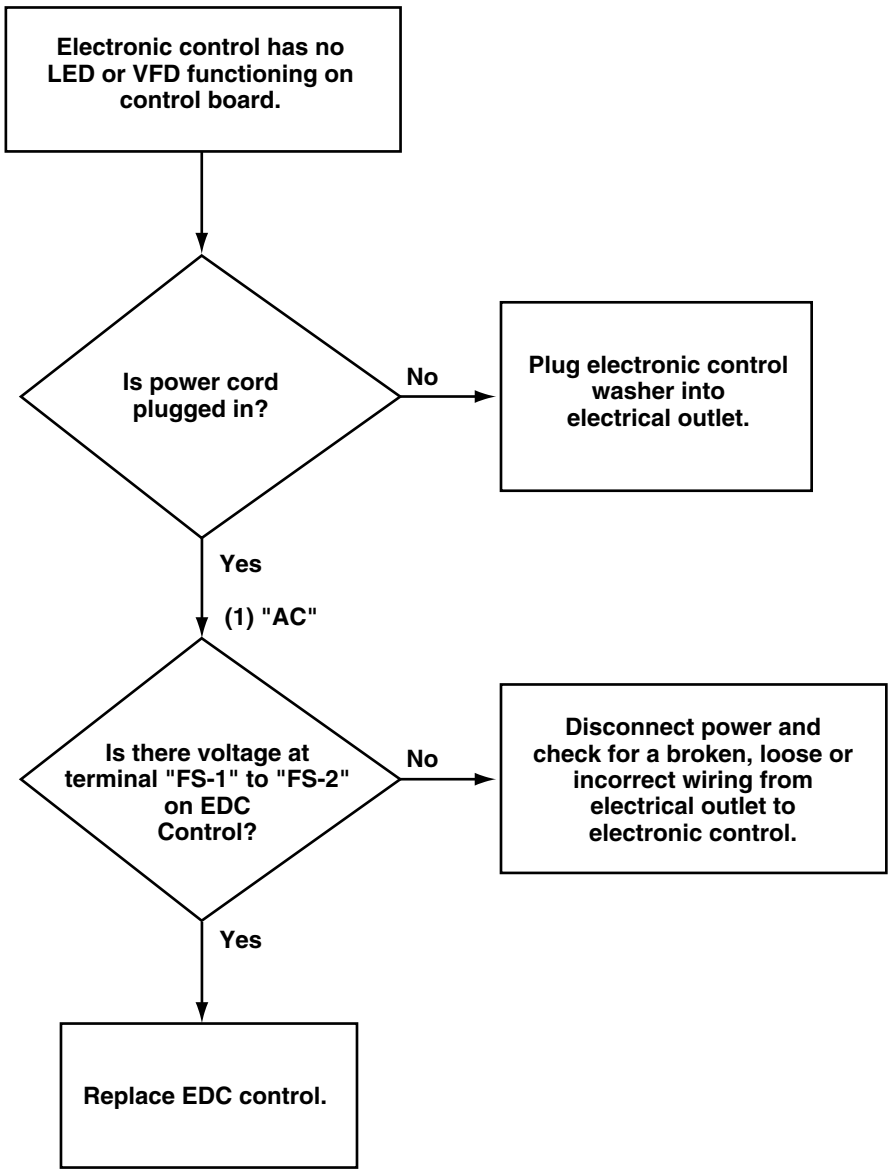
8. ELECTRONIC CONTROL HAS NO VISIBLE DISPLAY – WASHER


Electronic control has no LED or VFD functioning on control board.
Is power cord plugged in?
No
Plug electronic control washer into electrical outlet.
Yes
(1) "AC"
Is there voltage at terminal "FS-1" to "FS-2" on EDC Control?
No
Disconnect power and check for a broken, loose or incorrect wiring from electrical outlet to electronic control.
Yes
Replace EDC control.

H132SE3A

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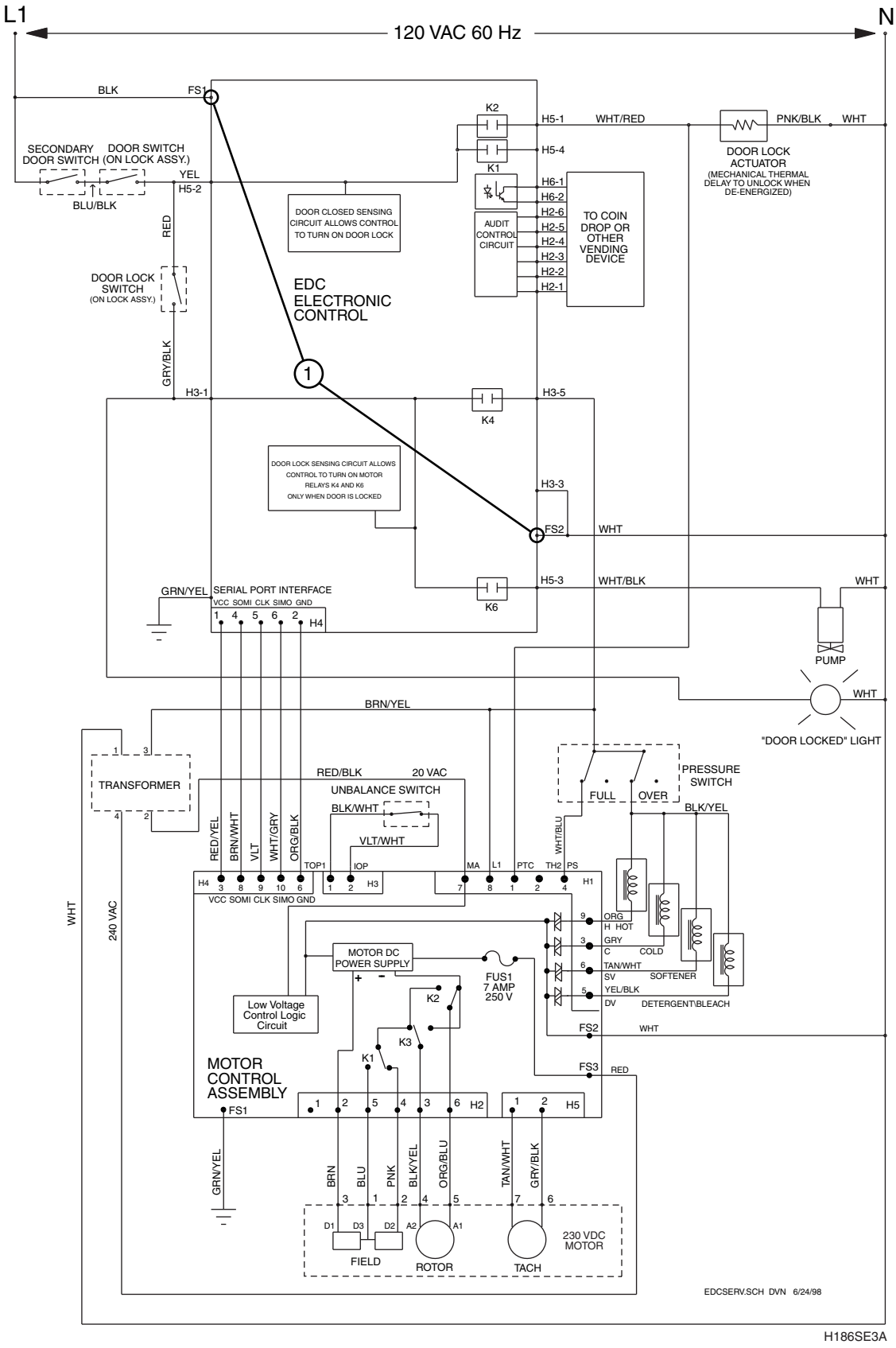
EDC FRONT LOAD WASHER MODEL



H186SE3A

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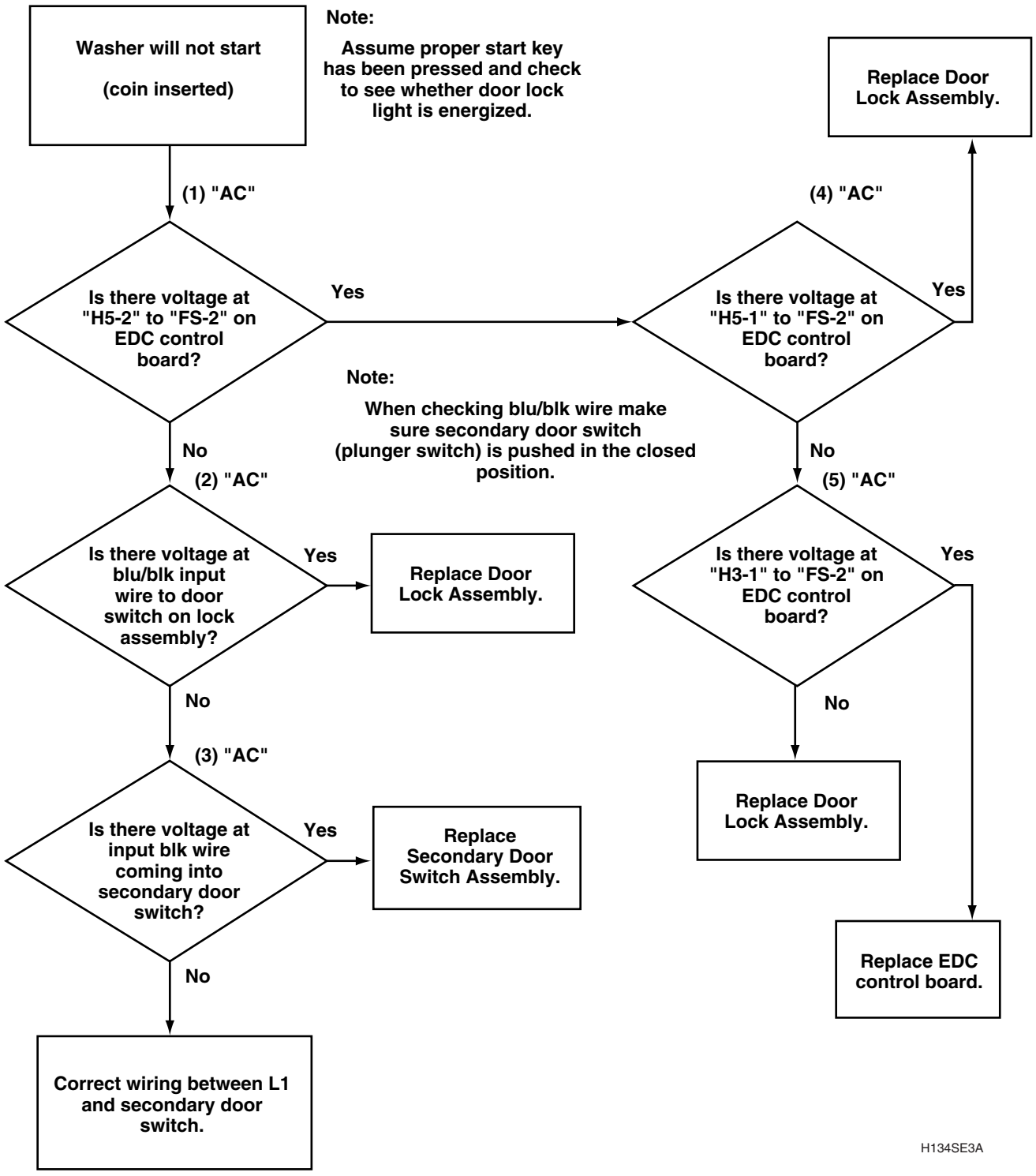
9. WASHER WILL NOT START (DOOR AND DOOR LOCK SWITCH) – NO DOOR LOCK ONLY


Washer will not start
(coin inserted)
Note:
Assume proper start key has been pressed and check to see whether door lock light is energized.
(1) "AC"
Is there voltage at "H5-2" to "FS-2" on EDC control board?
Yes
Is there voltage at "H5-1" to "FS-2" on EDC control board?
(4) "AC"
Yes
Replace Door Lock Assembly.
Note:
When checking blu/blk wire make sure secondary door switch (plunger switch) is pushed in the closed position.
No
(2) "AC"
Is there voltage at blu/blk input wire to door switch on lock assembly?
Yes
Replace Door Lock Assembly.
No
(5) "AC"
Is there voltage at "H3-1" to "FS-2" on EDC control board?
Yes
No
(3) "AC"
Is there voltage at input blk wire coming into secondary door switch?
Yes
Replace Secondary Door Switch Assembly.
Replace Door Lock Assembly.
Replace EDC control board.
No
Correct wiring between L1 and secondary door switch.
H134SE3A

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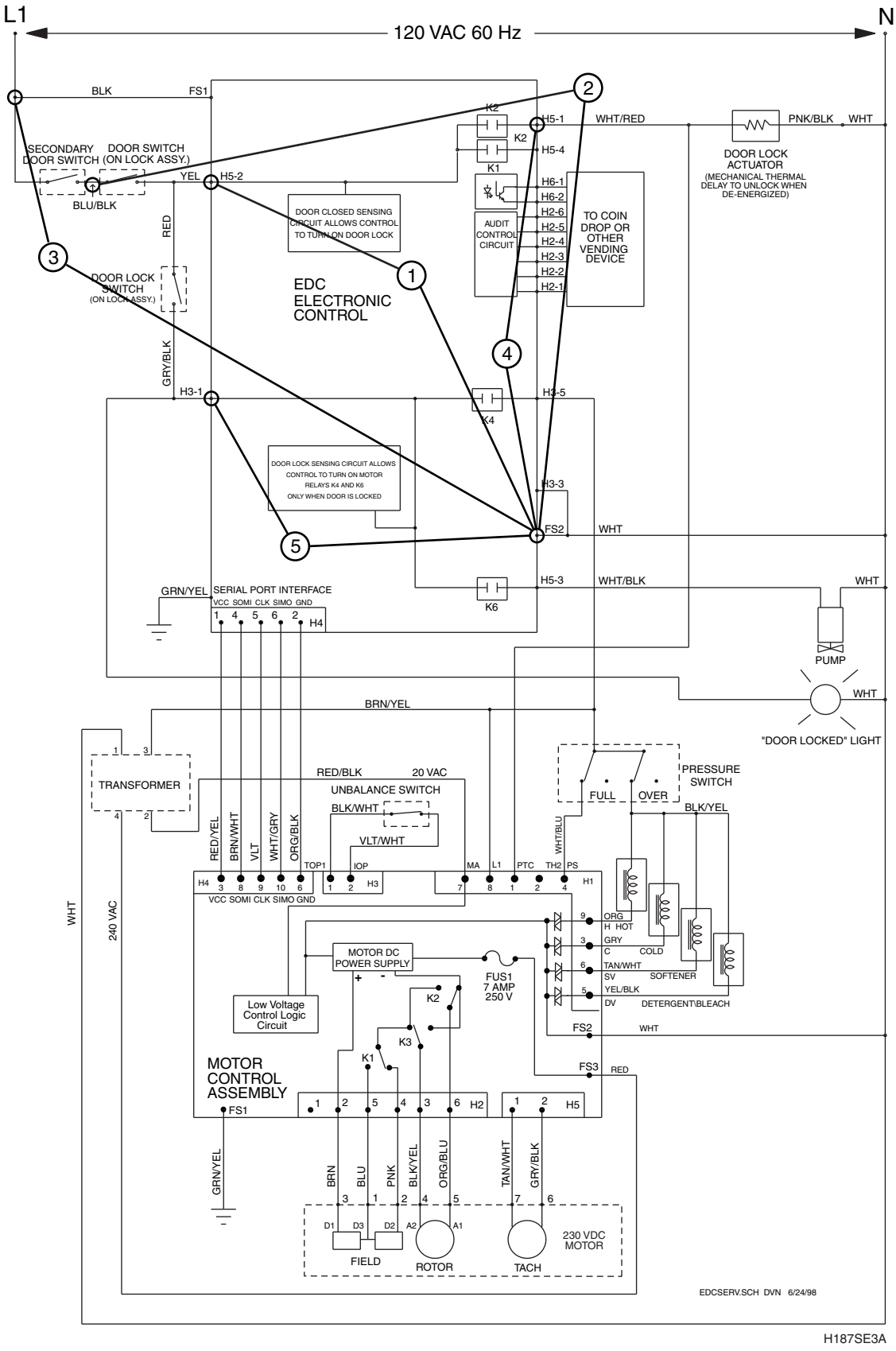
EDC FRONT LOAD WASHER MODEL



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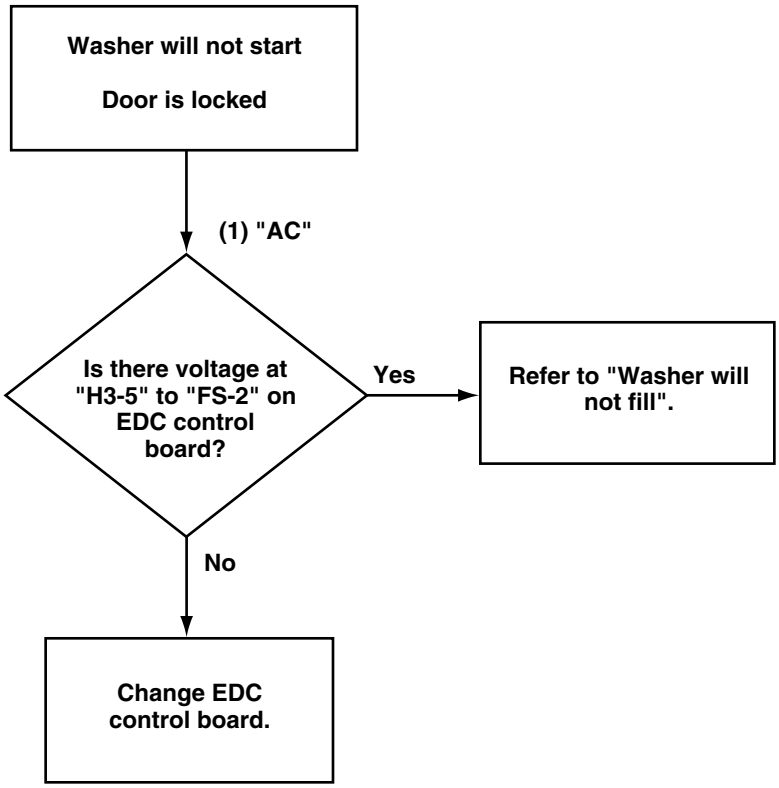
10. WASHER WILL NOT START (EDC CONTROL ANALYSIS)


Washer will not start
Door is locked
(1) "AC"
Is there voltage at "H3-5" to "FS-2" on EDC control board?
Yes
Refer to "Washer will not fill".
No
Change EDC control board.

H136SE3A

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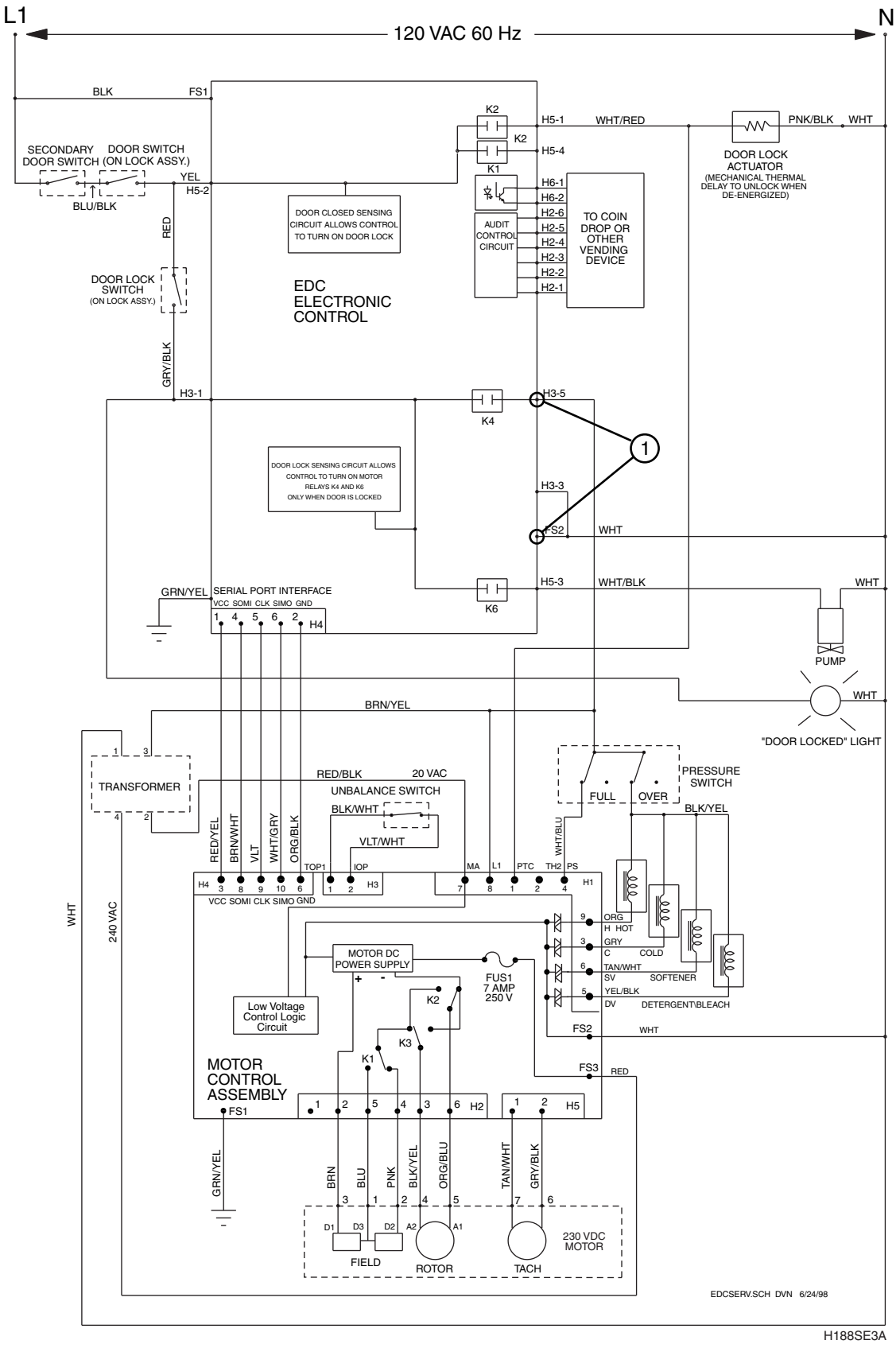
EDC FRONT LOAD WASHER MODEL



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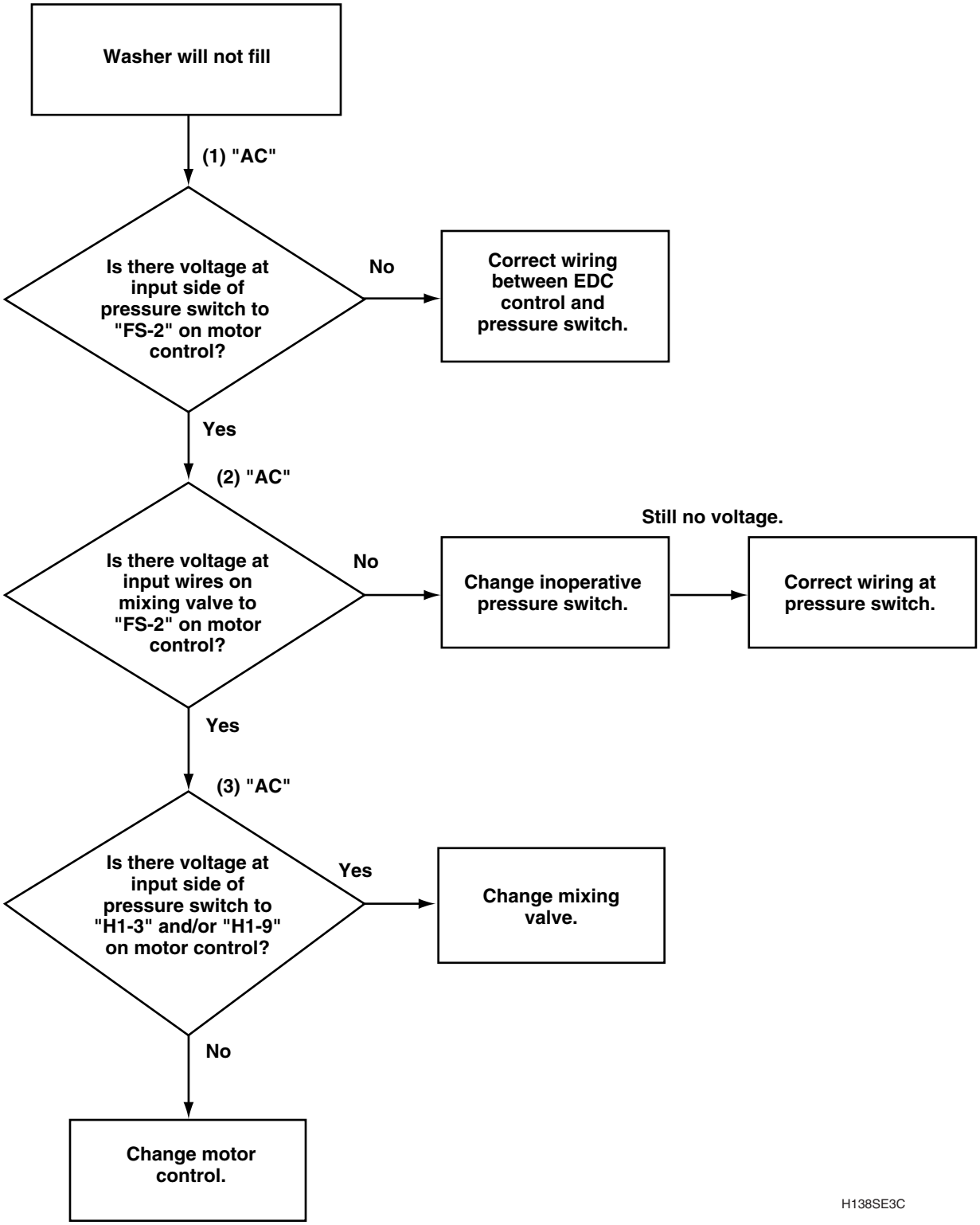
11. WASHER WILL NOT FILL


Washer will not fill
(1) "AC"
Is there voltage at input side of pressure switch to "FS-2" on motor control?
No
Correct wiring between EDC control and pressure switch.
Yes
(2) "AC"
Is there voltage at input wires on mixing valve to "FS-2" on motor control?
No
Still no voltage.
Change inoperative pressure switch.
Correct wiring at pressure switch.
Yes
(3) "AC"
Is there voltage at input side of pressure switch to "H1-3" and/or "H1-9" on motor control?
Yes
Change mixing valve.
No
Change motor control.
H138SE3C

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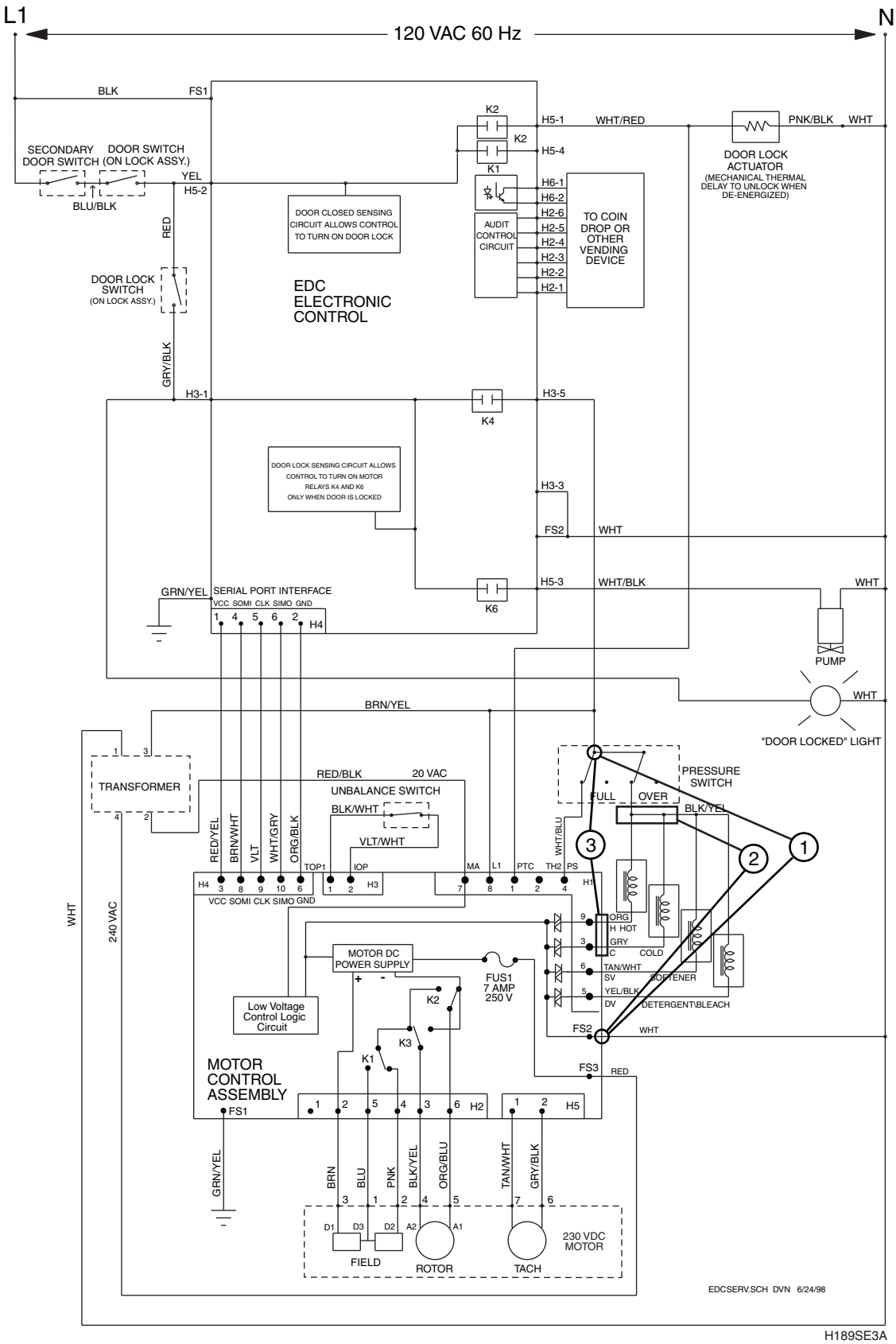
EDC FRONT LOAD WASHER MODEL



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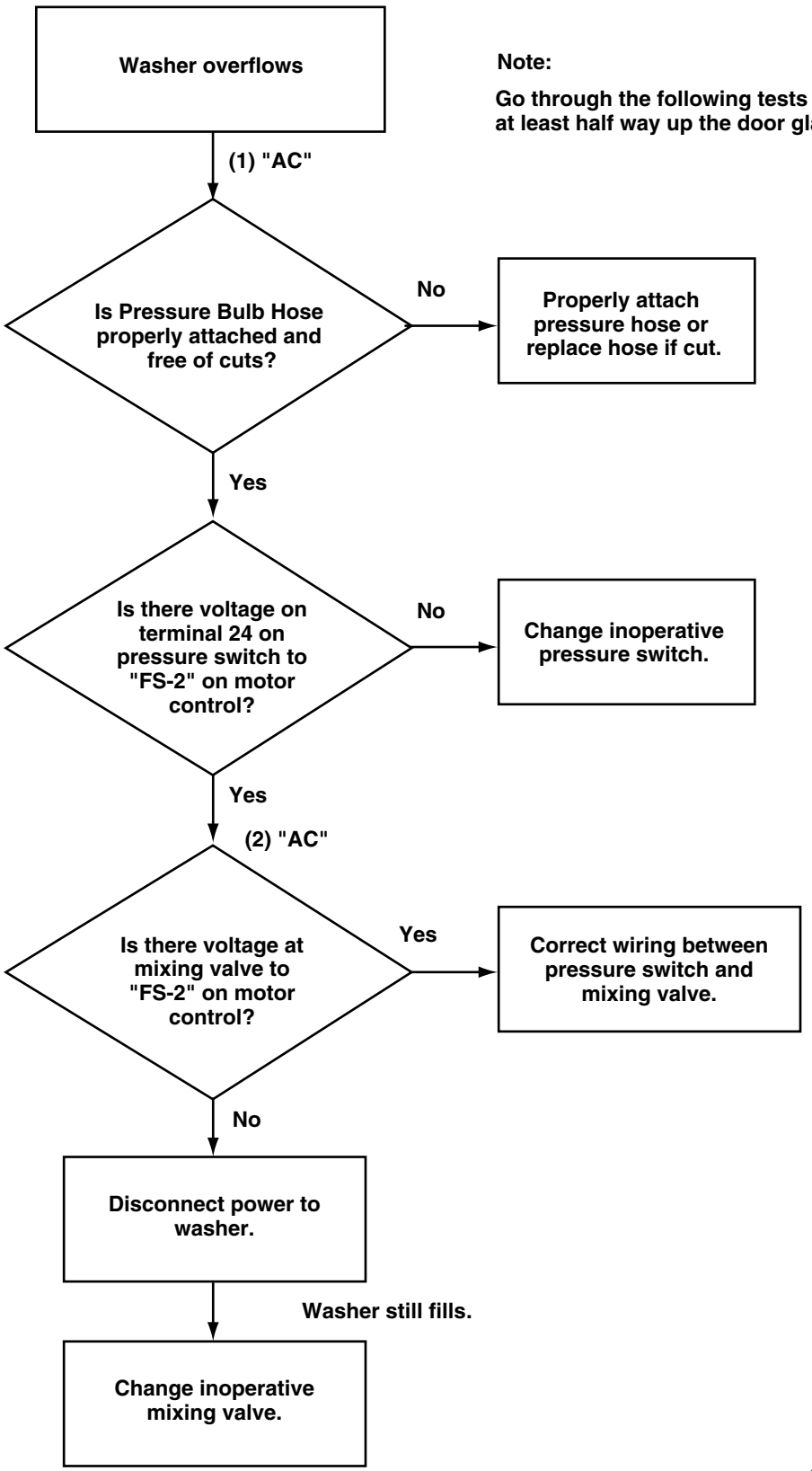
12. WASHER OVERFLOWS


Washer overflows
Note:
Go through the following tests if water is at least half way up the door glass.
(1) "AC"
Is Pressure Bulb Hose properly attached and free of cuts?
No
Properly attach pressure hose or replace hose if cut.
Yes
Is there voltage on terminal 24 on pressure switch to "FS-2" on motor control?
No
Change inoperative pressure switch.
Yes
(2) "AC"
Is there voltage at mixing valve to "FS-2" on motor control?
Yes
Correct wiring between pressure switch and mixing valve.
No
Disconnect power to washer.
Washer still fills.
Change inoperative mixing valve.
H140SE3B

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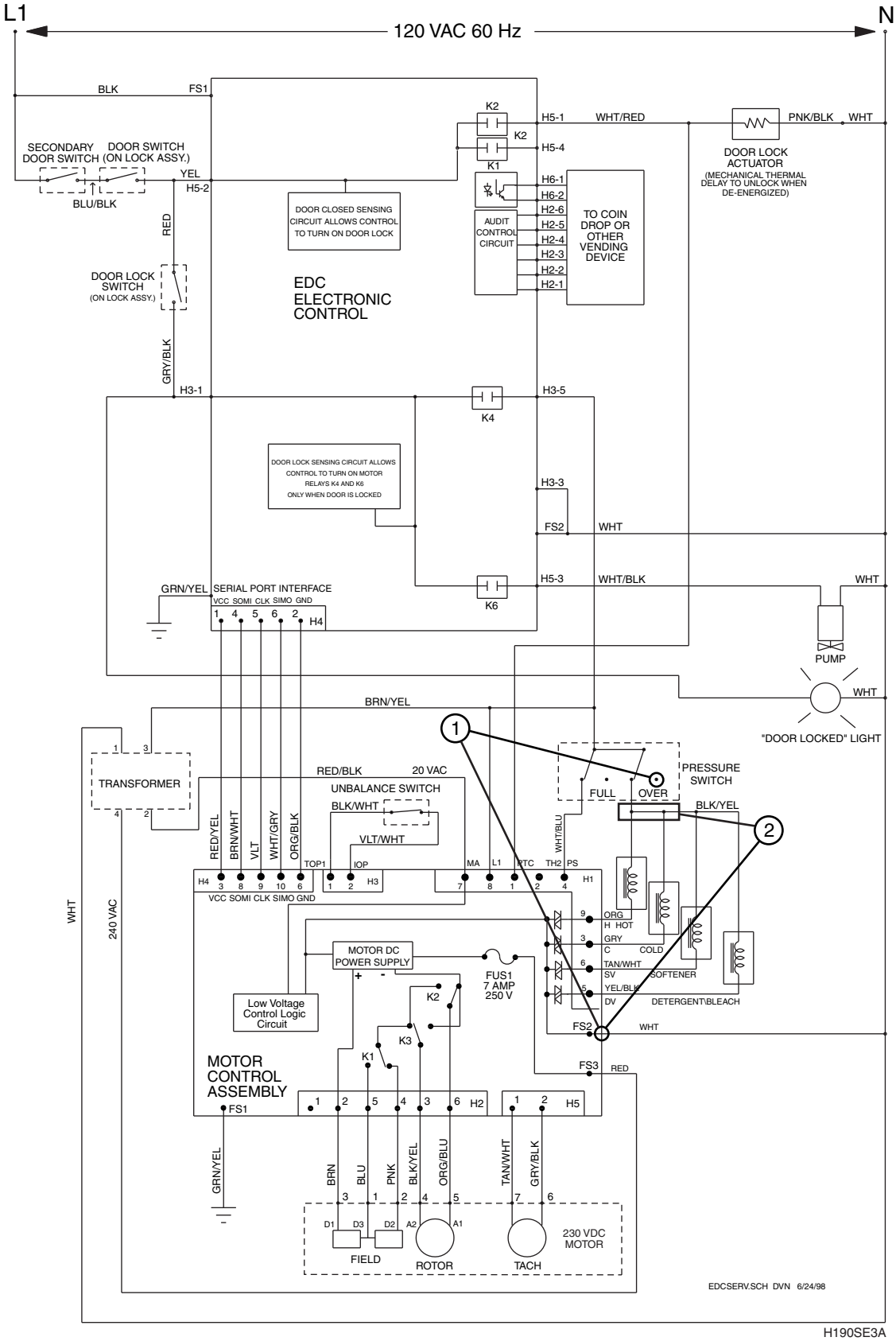
EDC FRONT LOAD WASHER MODEL



H190SE3A

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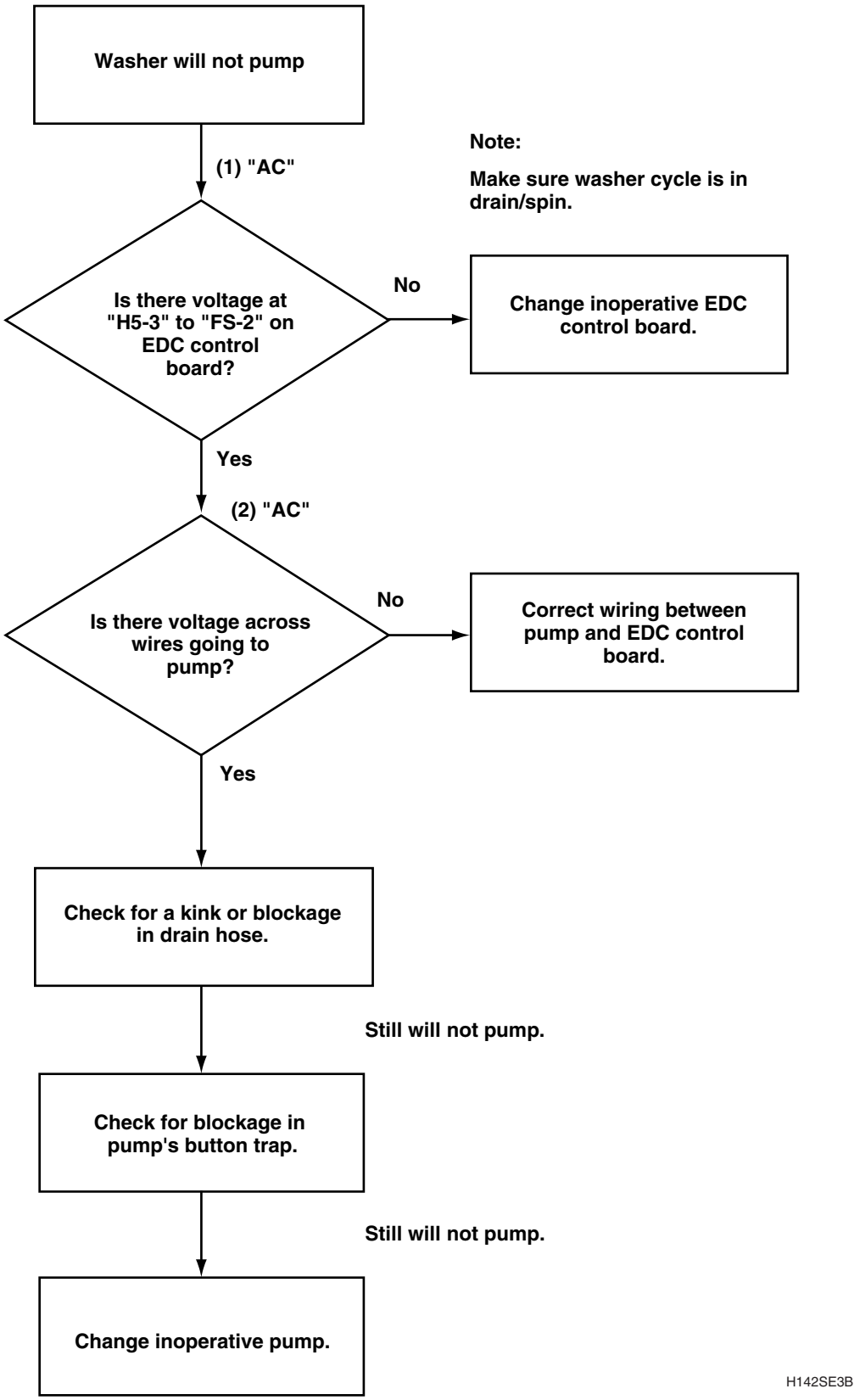
13. WASHER WILL NOT PUMP


Washer will not pump
(1) "AC"
Note:
Make sure washer cycle is in drain/spin.
Is there voltage at "H5-3" to "FS-2" on EDC control board?
No
Change inoperative EDC control board.
Yes
(2) "AC"
Is there voltage across wires going to pump?
No
Correct wiring between pump and EDC control board.
Yes
Check for a kink or blockage in drain hose.
Still will not pump.
Check for blockage in pump's button trap.
Still will not pump.
Change inoperative pump.
H142SE3B

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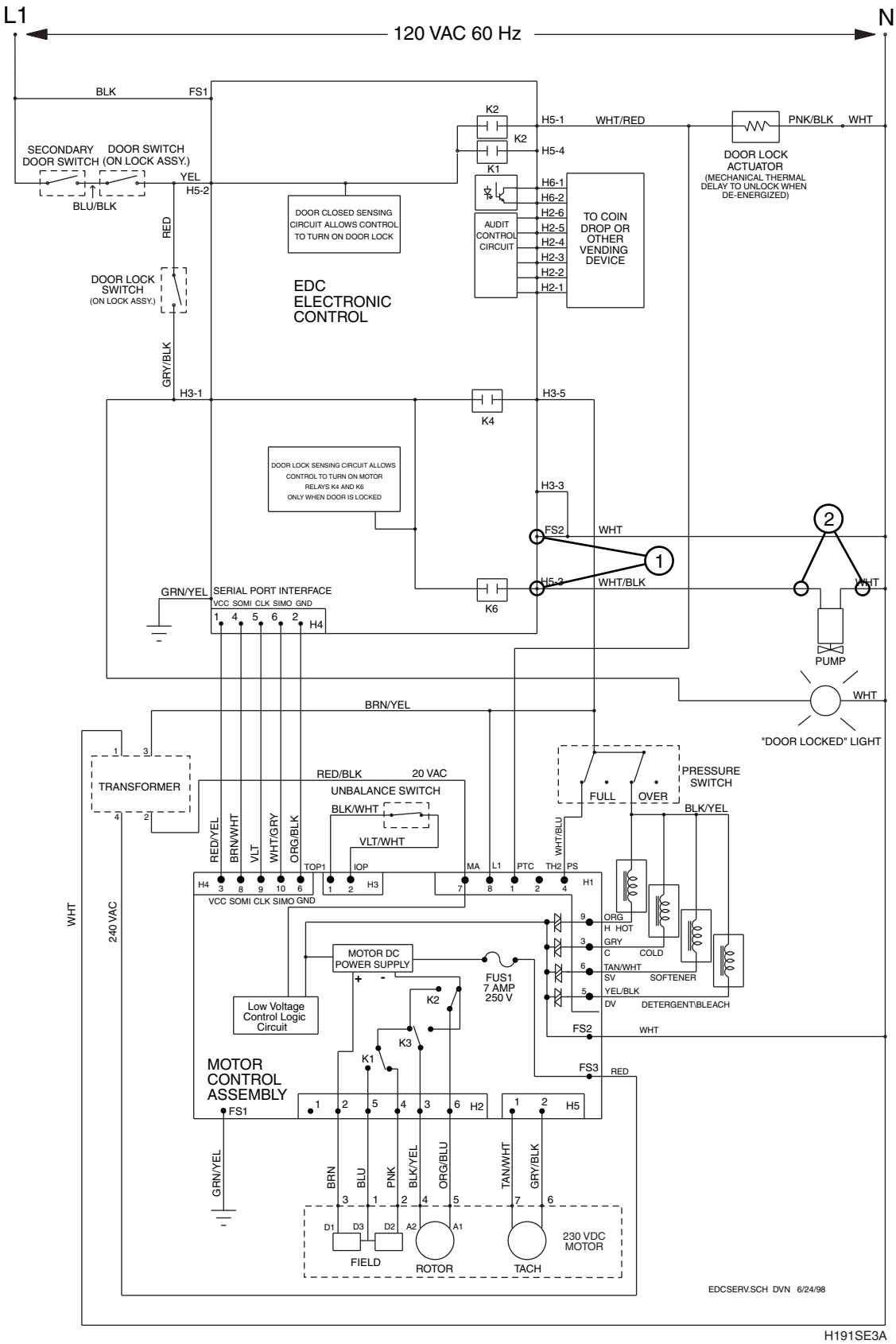
EDC FRONT LOAD WASHER MODEL



H191SE3A

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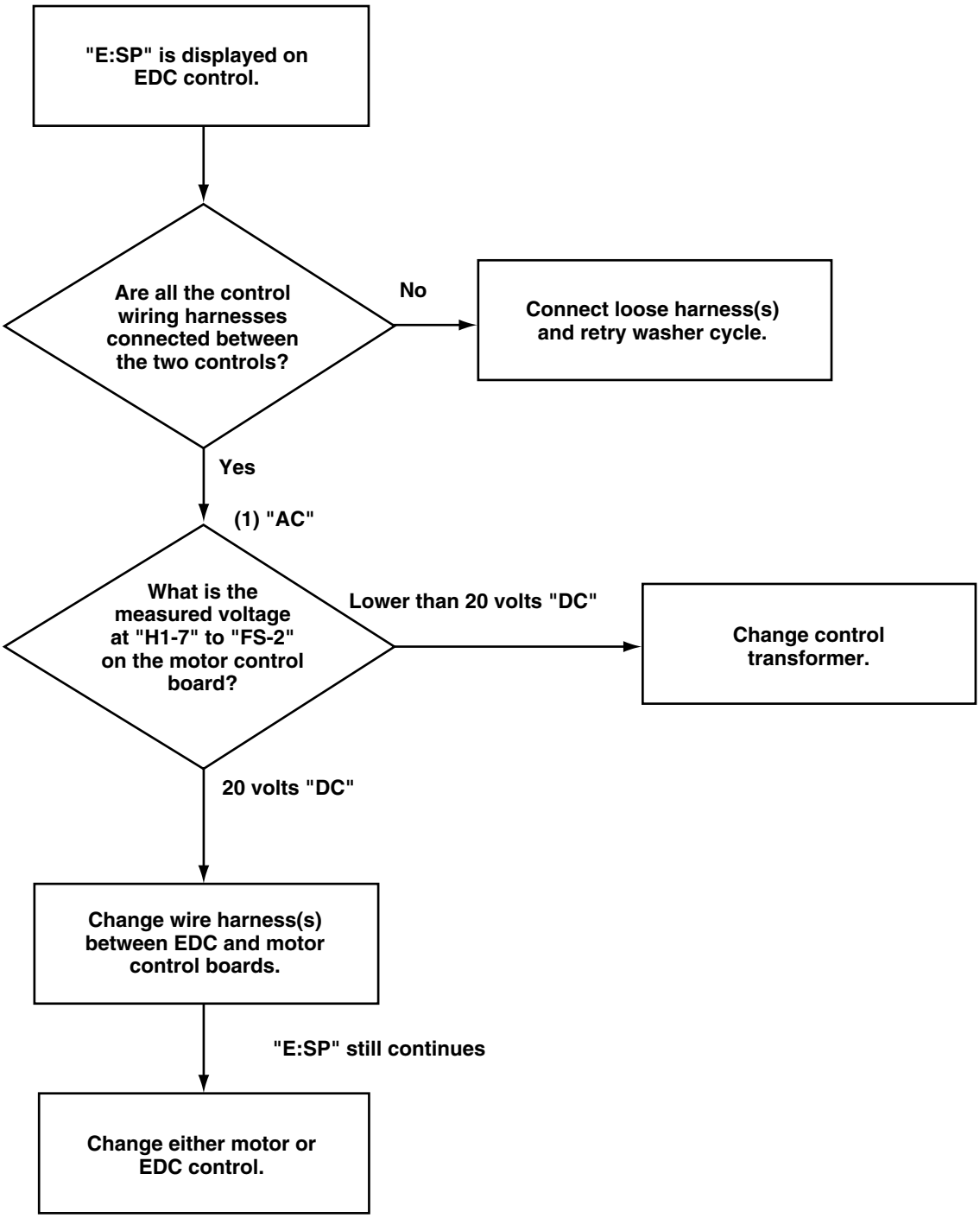
14. “E:SP” ERROR ANALYSIS


"E:SP" is displayed on EDC control.
Are all the control wiring harnesses connected between the two controls?
No
Connect loose harness(s) and retry washer cycle.
Yes
(1) "AC"
What is the measured voltage at "H1-7" to "FS-2" on the motor control board?
Lower than 20 volts "DC"
Change control transformer.
20 volts "DC"
Change wire harness(s) between EDC and motor control boards.
"E:SP" still continues
Change either motor or EDC control.

H144SE3A

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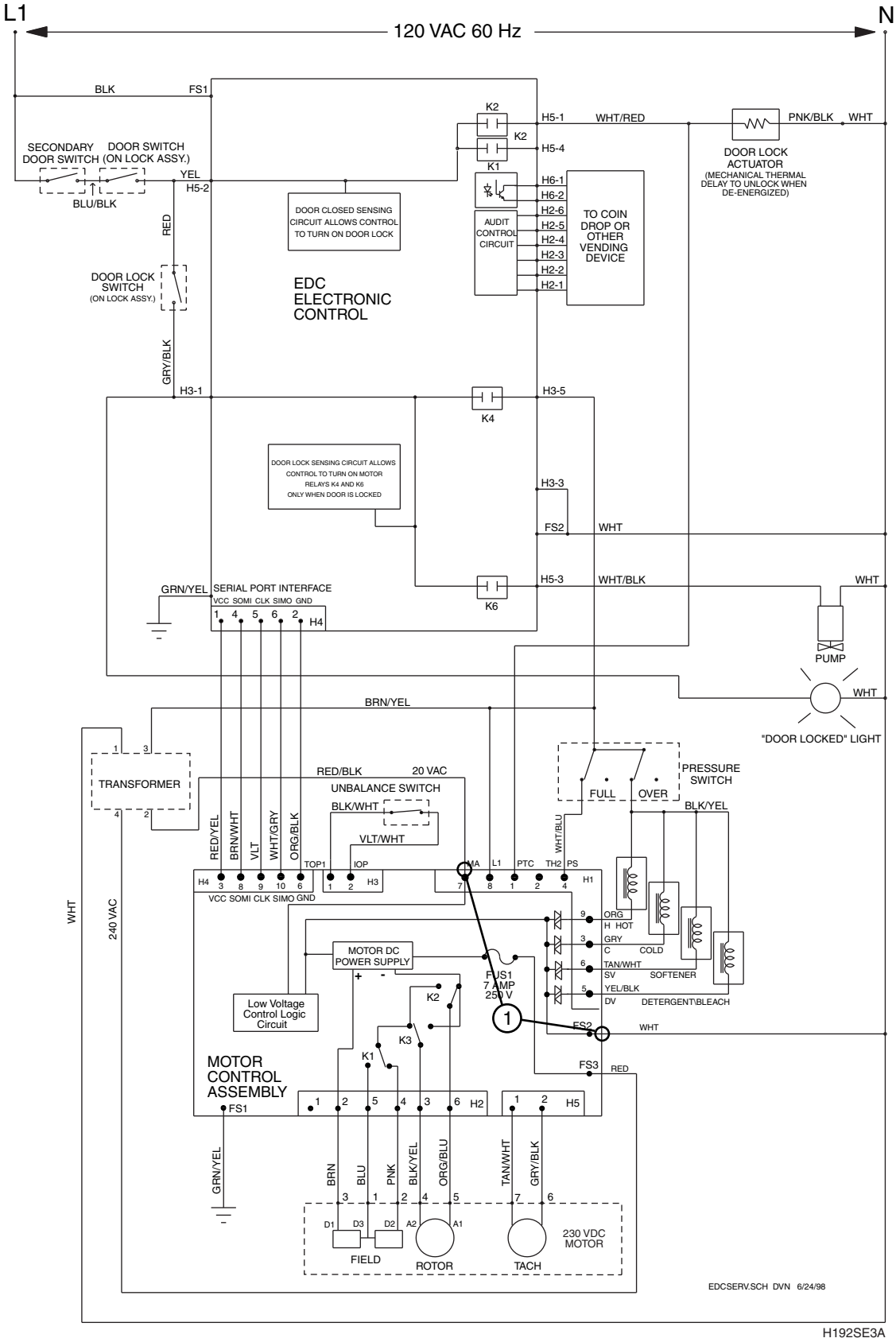
EDC FRONT LOAD WASHER MODEL



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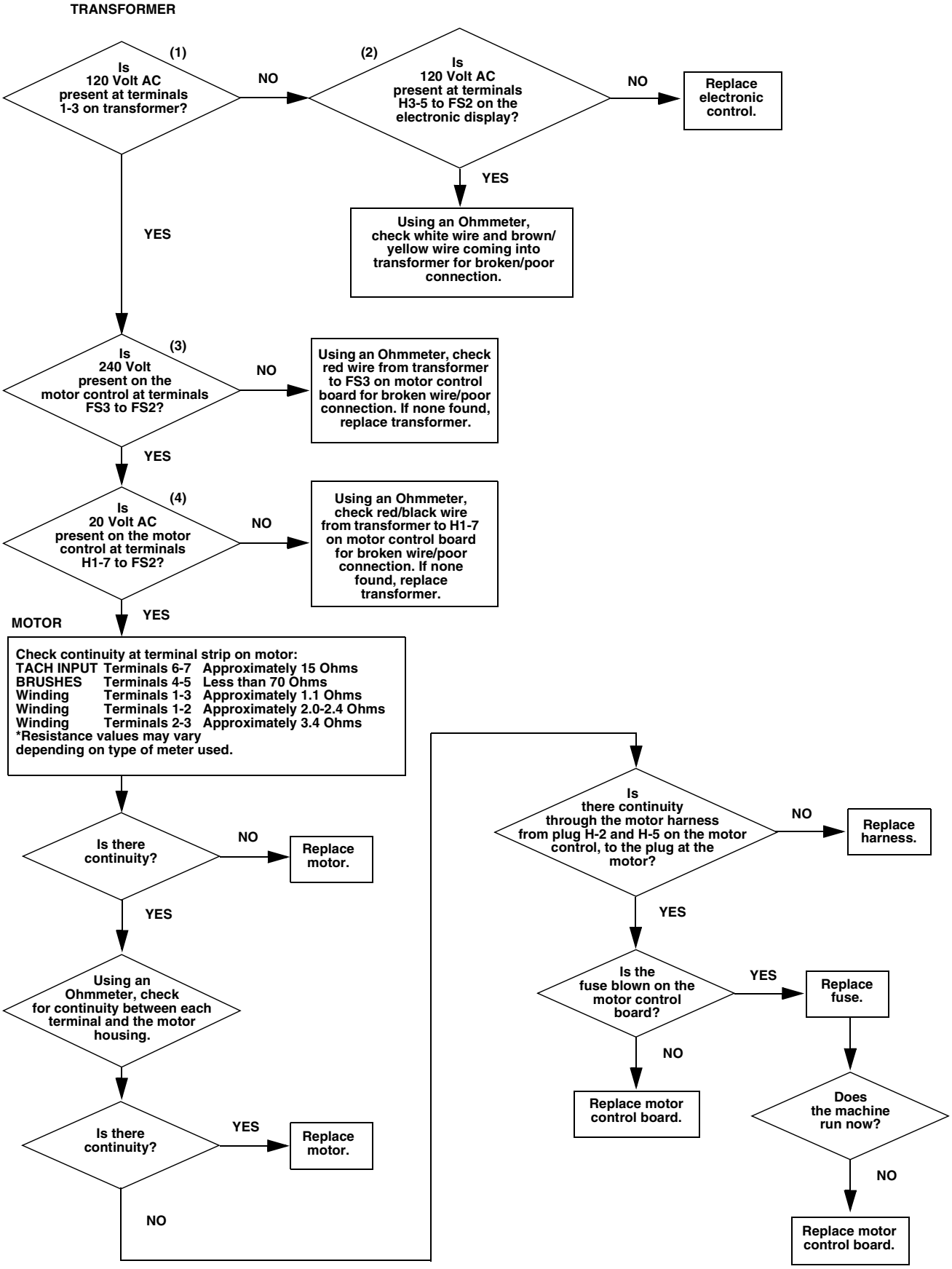
15. DOOR LOCKED, MOTOR DOES NOT RUN (E:DF ON DISPLAY)


TRANSFORMER
(1)
Is 120 Volt AC present at terminals 1-3 on transformer?
NO
(2)
Is 120 Volt AC present at terminals H3-5 to FS2 on the electronic display?
NO
Replace electronic control.
YES
Using an Ohmmeter, check white wire and brown/ yellow wire coming into transformer for broken/poor connection.
YES
(3)
Is 240 Volt present on the motor control at terminals FS3 to FS2?
NO
Using an Ohmmeter, check red wire from transformer to FS3 on motor control board for broken wire/poor connection. If none found, replace transformer.
YES
(4)
Is 20 Volt AC present on the motor control at terminals H1-7 to FS2?
NO
Using an Ohmmeter, check red/black wire from transformer to H1-7 on motor control board for broken wire/poor connection. If none found, replace transformer.
YES
MOTOR
Check continuity at terminal strip on motor:
TACH INPUT Terminals 6-7 Approximately 15 Ohms
BRUSHES Terminals 4-5 Less than 70 Ohms
Winding Terminals 1-3 Approximately 1.1 Ohms
Winding Terminals 1-2 Approximately 2.0-2.4 Ohms
Winding Terminals 2-3 Approximately 3.4 Ohms
*Resistance values may vary depending on type of meter used.
Is there continuity?
NO
Replace motor.
YES
Using an Ohmmeter, check for continuity between each terminal and the motor housing.
Is there continuity?
YES
Replace motor.
NO
Is there continuity through the motor harness from plug H-2 and H-5 on the motor control, to the plug at the motor?
NO
Replace harness.
YES
Is the fuse blown on the motor control board?
YES
Replace fuse.
NO
Replace motor control board.
Does the machine run now?
NO
Replace motor control board.

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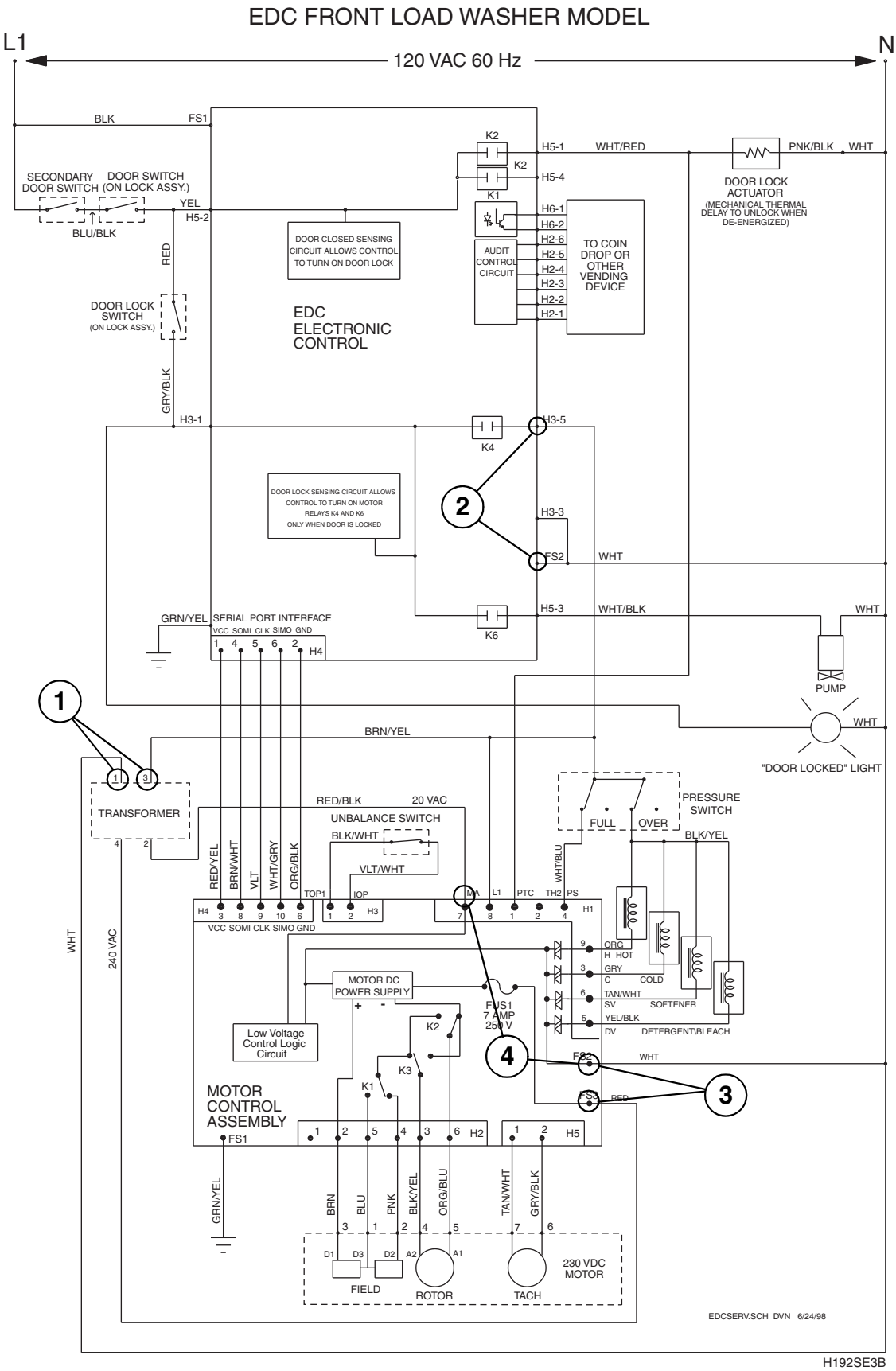
DOOR LOCKED, MOTOR DOES NOT RUN (E:DF ON DISPLAY)



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16. START UP SEQUENCE

a. Insert money and/or card and push the button next to the flashing light.
b. Both door closed switches need to be in the closed position, after vend price has been satisfied.
c. The door lock actuator is energized from “H5-1” terminal on EDC control board.
d. The door lock switch is closed.
e. The “K4” relay is closed on EDC control board.
f. The control transformer is energized.
g. Communications begin between EDC and motor control boards through the SPI lines to the optoisolators on EDC control.
h. The mixing valve is energized and washer begins to fill.
i. The main drive motor is powered to start inner basket rotating.

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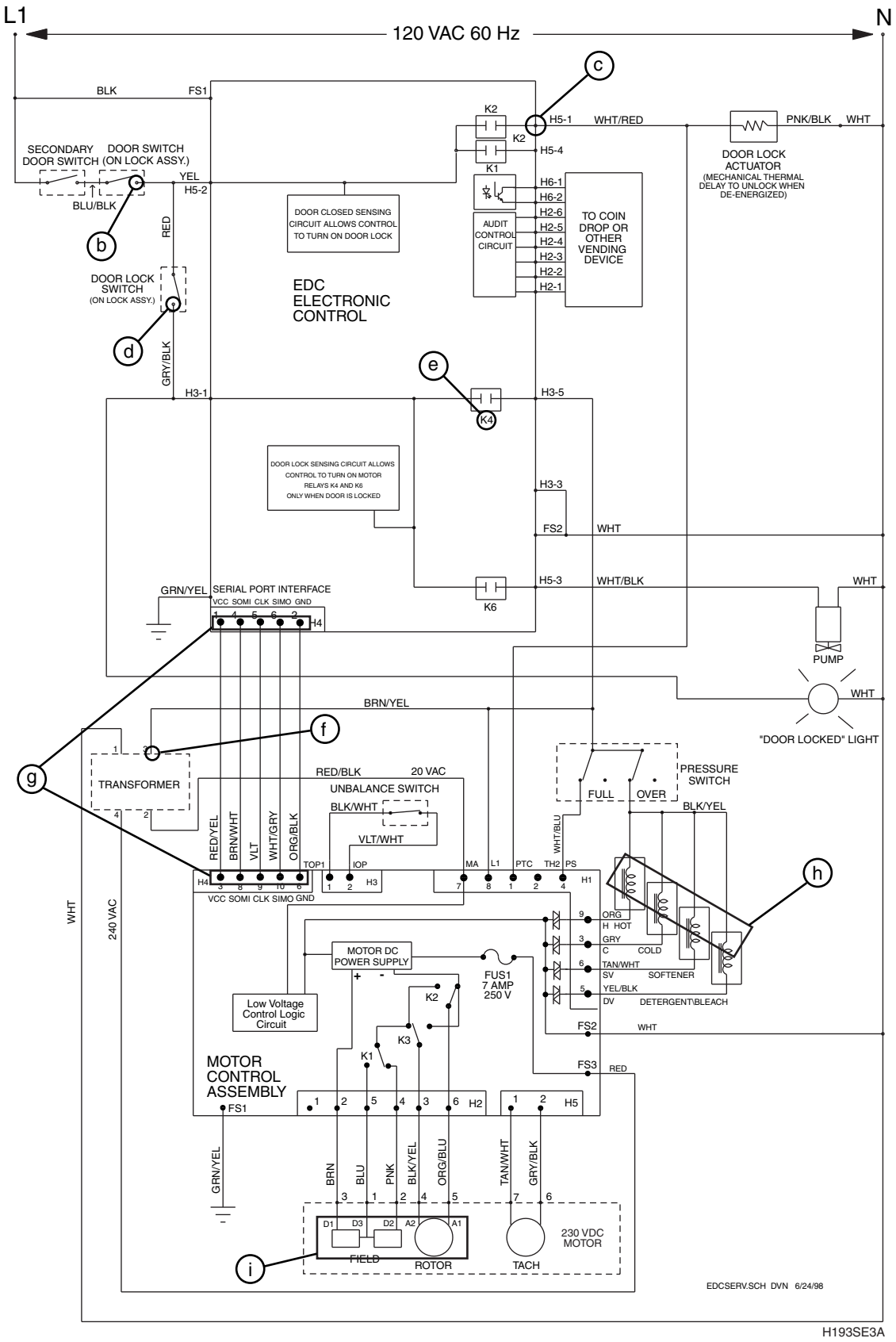
EDC FRONT LOAD WASHER MODEL



H193SE3A

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17. SHUT DOWN SEQUENCE

a. Towards end of cycle, ":01" is on display. The door lock actuator is powered down and "K2" relay on EDC control is opened.
b. The door lock switch is opened after a one-minute delay. The display will show ":00".
c. The door switches will open when loading door opens.

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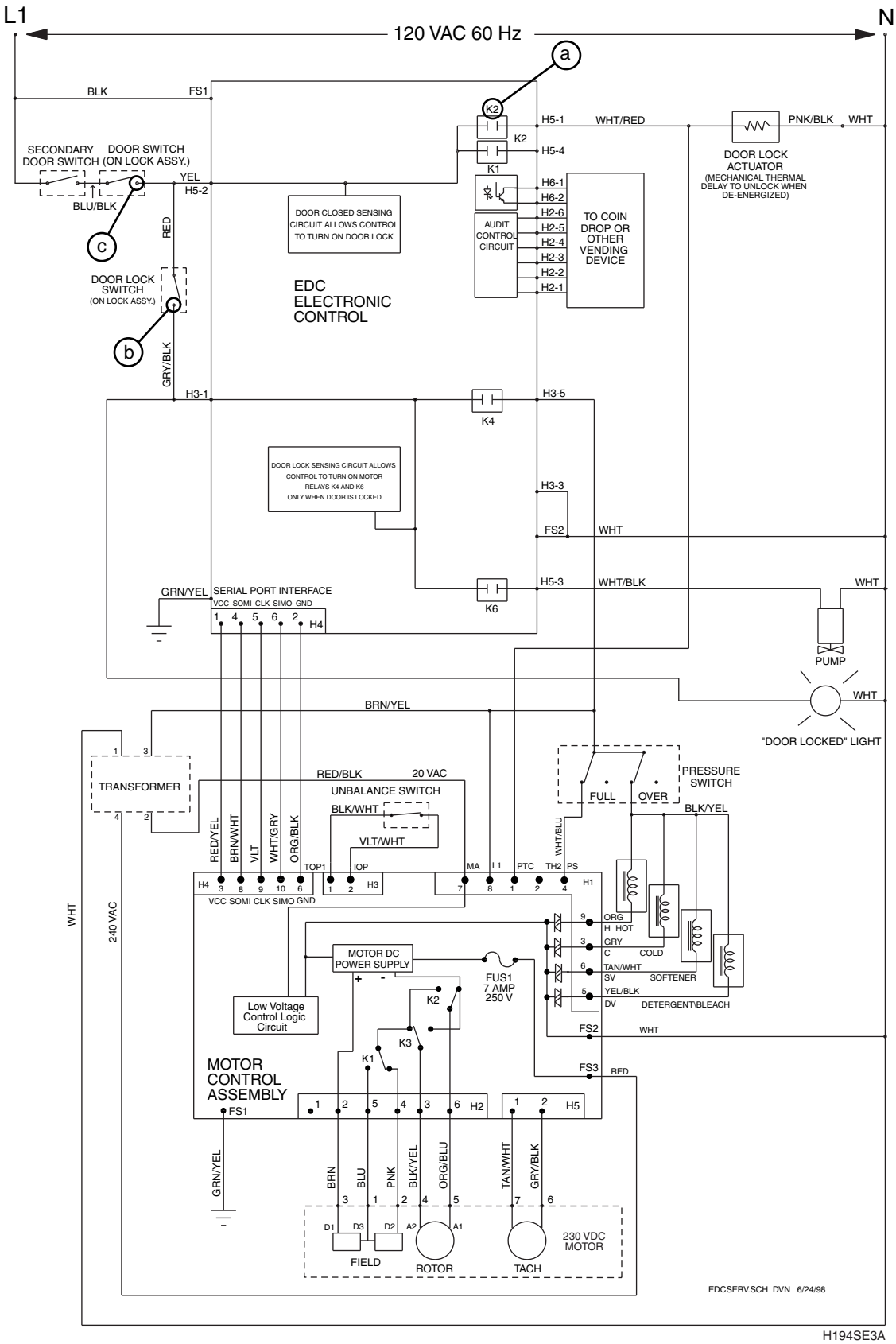
EDC FRONT LOAD WASHER MODEL



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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

18. MDC ERROR CODE LISTING

E:df	Drive failure.	This error code is generated by the motor control and transmitted to the master control. Several conditions can cause this code; motor unplugged, motor failure (refer to *Paragraph 4*), tachometer circuit open, inner basket locked up. This is a fatal error. Machine must be unpowered to reset.
E:SP	Serial communication error.	This error code occurs when the master control cannot communicate with the motor control. The master control will try to reset the motor control by powering it down. It will try resetting three times before setting the error code. Common causes include defective or unplugged transformer, and incorrect wiring to motor control. This is a fatal error.
E:FL	Fill error.	This error code occurs if the pressure switch fails to open in 30 minutes in any fill/agitate cycle. This is a fatal error.
dor	Door Open Indicator.	This error code occurs when the door is not closed at the start of an active cycle. If the door is closed, check for wiring or door switches.
E:do	Door open error.	This error code occurs if the control detects the door open and door locked inputs high at the same time. You can get this error if you jerk on the door when it is locked or as it is about to lock. This is a fatal error.
E:dL	Door lock error.	This error code occurs if the door does not lock in 15 seconds or unlock in 3 minutes at the end of the cycle. This is a non-fatal error. If the door locks or unlocks while E:dL is displayed it will clear the error condition. Also, if the door is opened after failing to lock it will clear the display.

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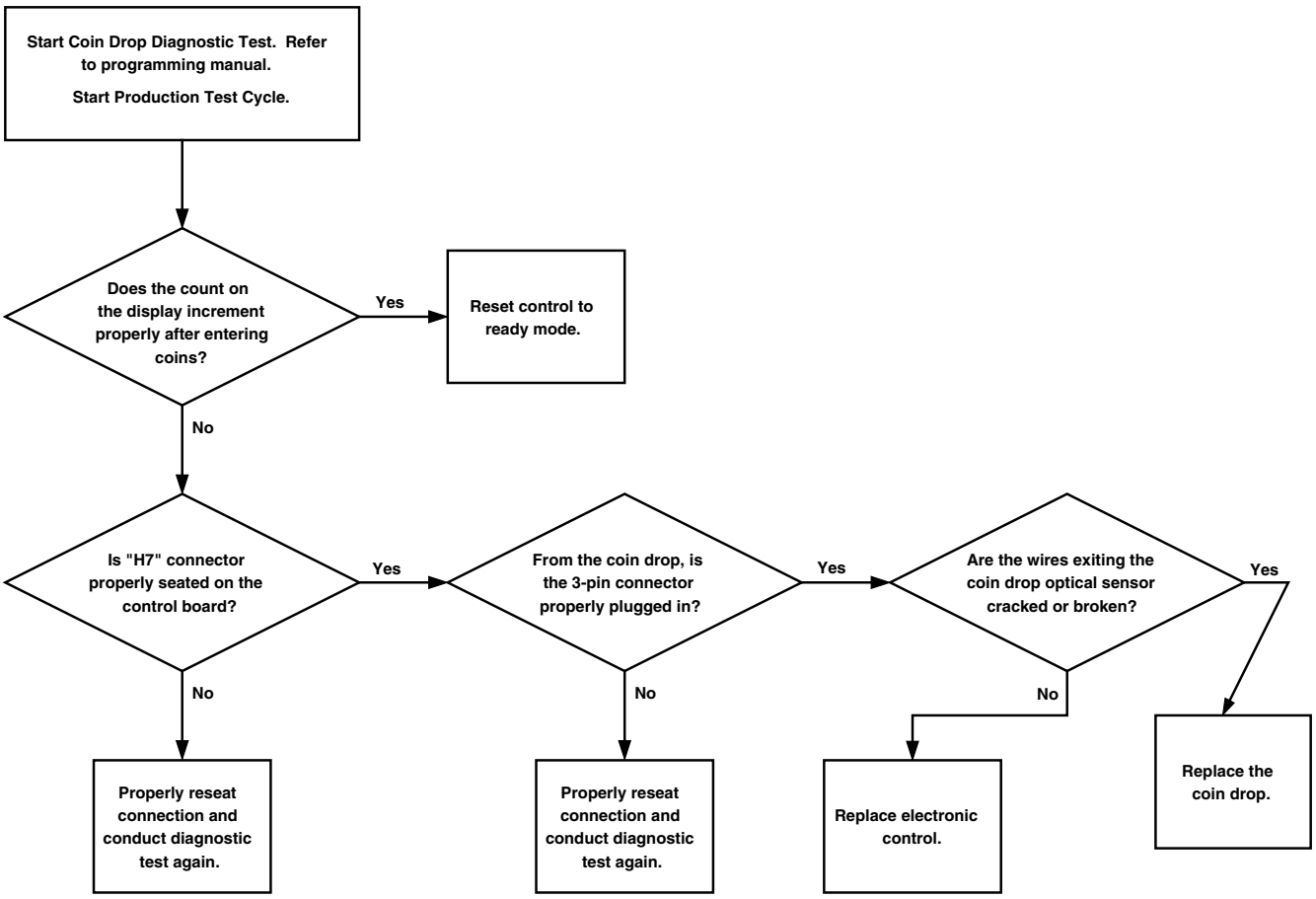
19. COINS IGNORED WHEN ENTERED


Start Coin Drop Diagnostic Test. Refer to programming manual.
Start Production Test Cycle.
Does the count on the display increment properly after entering coins?
Yes
Reset control to ready mode.
No
Is "H7" connector properly seated on the control board?
Yes
From the coin drop, is the 3-pin connector properly plugged in?
Yes
Are the wires exiting the coin drop optical sensor cracked or broken?
Yes
No
No
No
Properly reseat connection and conduct diagnostic test again.
Properly reseat connection and conduct diagnostic test again.
Replace electronic control.
Replace the coin drop.

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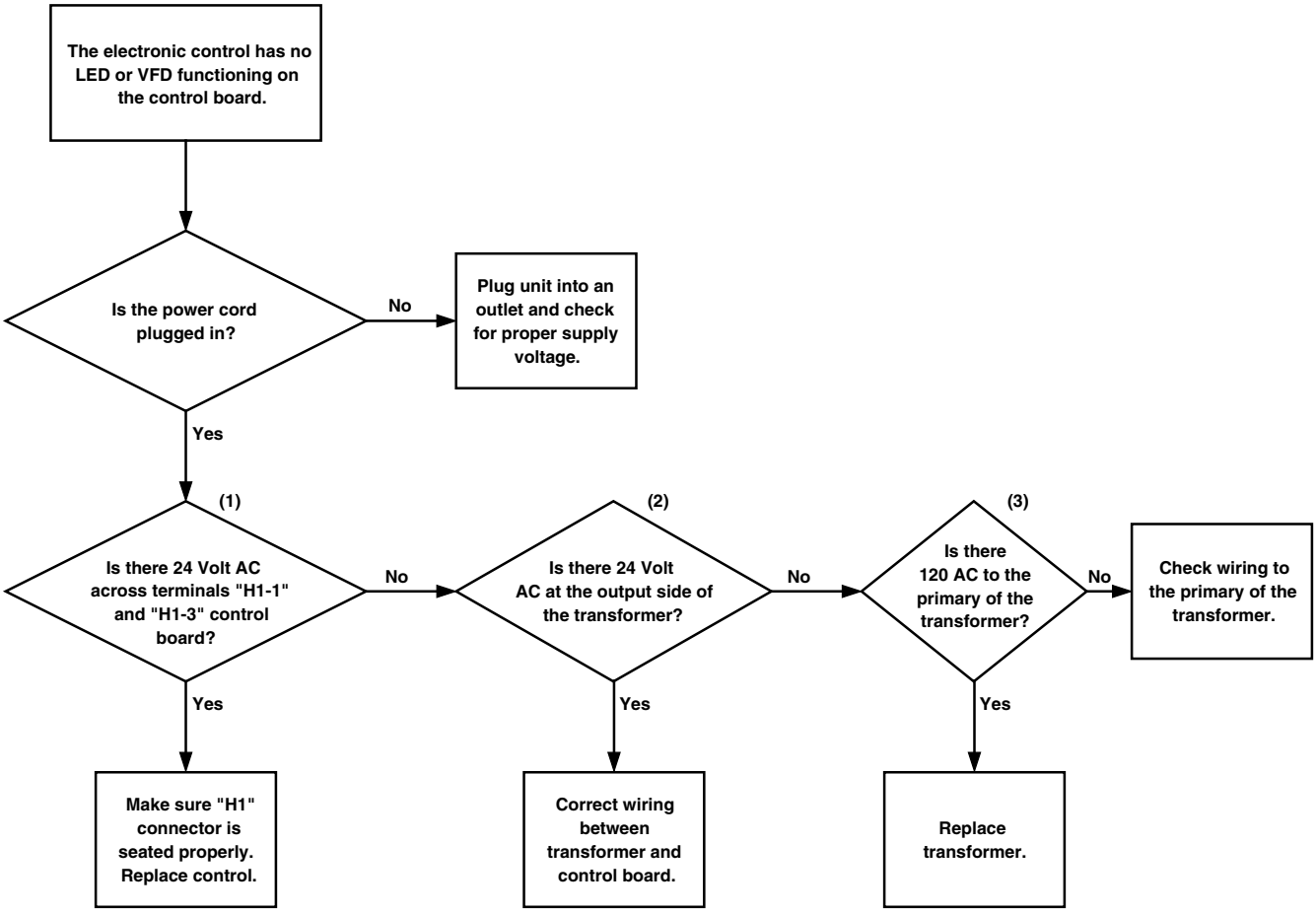
20. NO VISIBLE DISPLAY ON CONTROL


The electronic control has no LED or VFD functioning on the control board.
Is the power cord plugged in?
No
Plug unit into an outlet and check for proper supply voltage.
Yes
(1)
Is there 24 Volt AC across terminals "H1-1" and "H1-3" control board?
No
(2)
Is there 24 Volt AC at the output side of the transformer?
No
(3)
Is there 120 AC to the primary of the transformer?
No
Check wiring to the primary of the transformer.
Yes
Make sure "H1" connector is seated properly. Replace control.
Yes
Correct wiring between transformer and control board.
Yes
Replace transformer.

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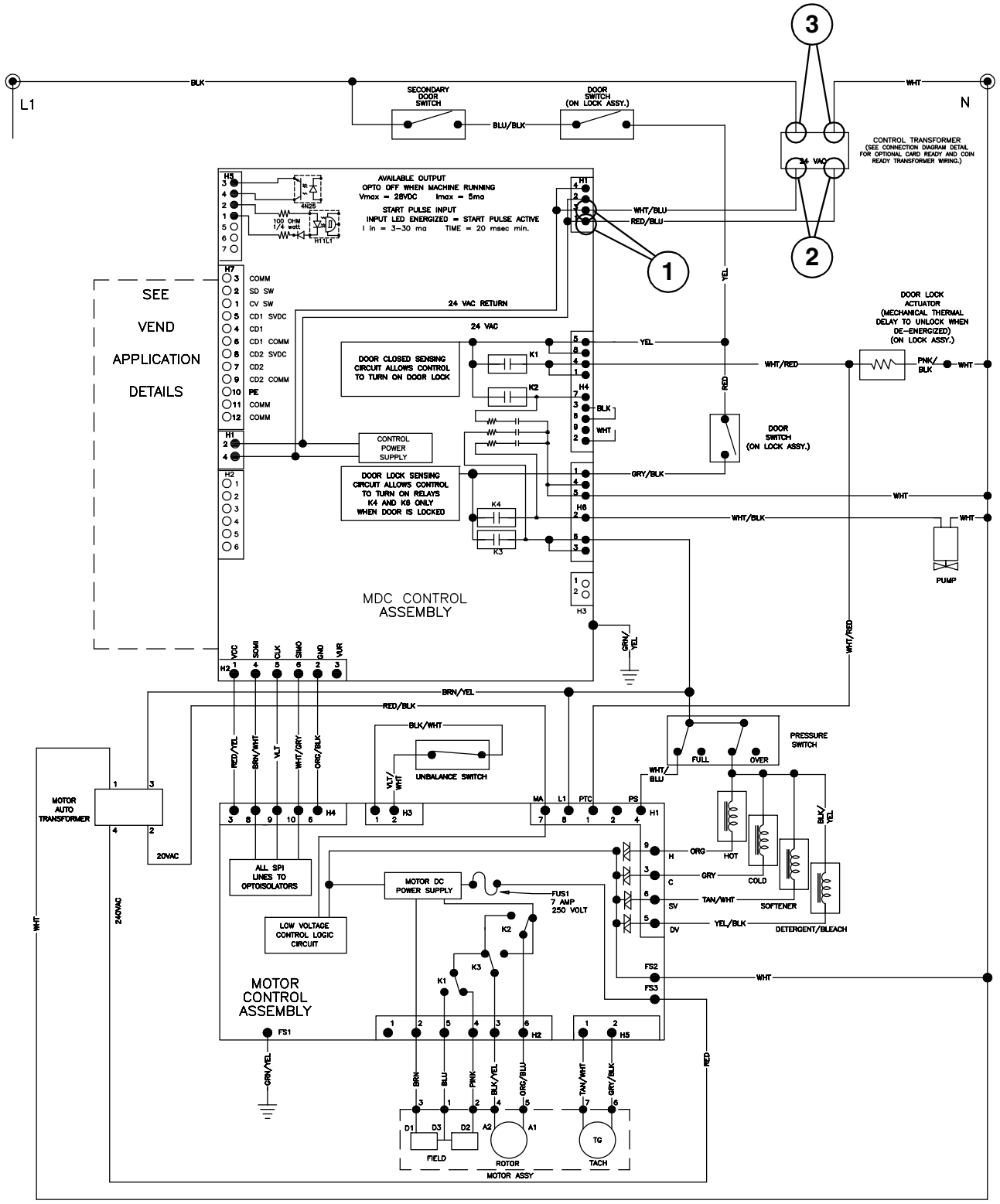
NO VISIBLE DISPLAY ON CONTROL



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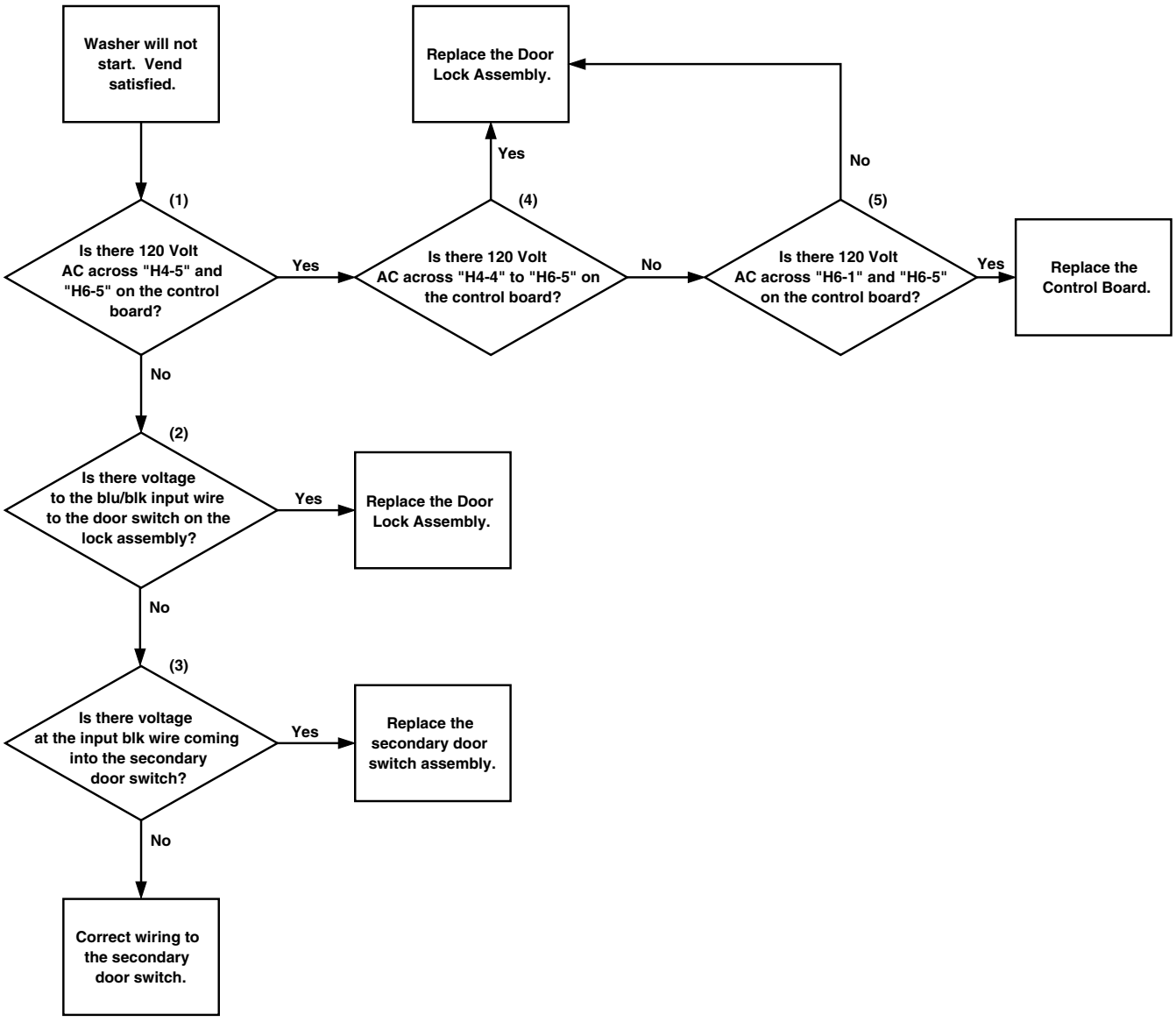
21. WASHER WILL NOT START – NO DOOR LOCK


Washer will not start. Vend satisfied.
(1)
Is there 120 Volt AC across "H4-5" and "H6-5" on the control board?
Yes
(4)
Is there 120 Volt AC across "H4-4" to "H6-5" on the control board?
Yes
Replace the Door Lock Assembly.
No
(5)
Is there 120 Volt AC across "H6-1" and "H6-5" on the control board?
Yes
Replace the Control Board.
No
(2)
Is there voltage to the blu/blk input wire to the door switch on the lock assembly?
Yes
Replace the Door Lock Assembly.
No
(3)
Is there voltage at the input blk wire coming into the secondary door switch?
Yes
Replace the secondary door switch assembly.
No
Correct wiring to the secondary door switch.

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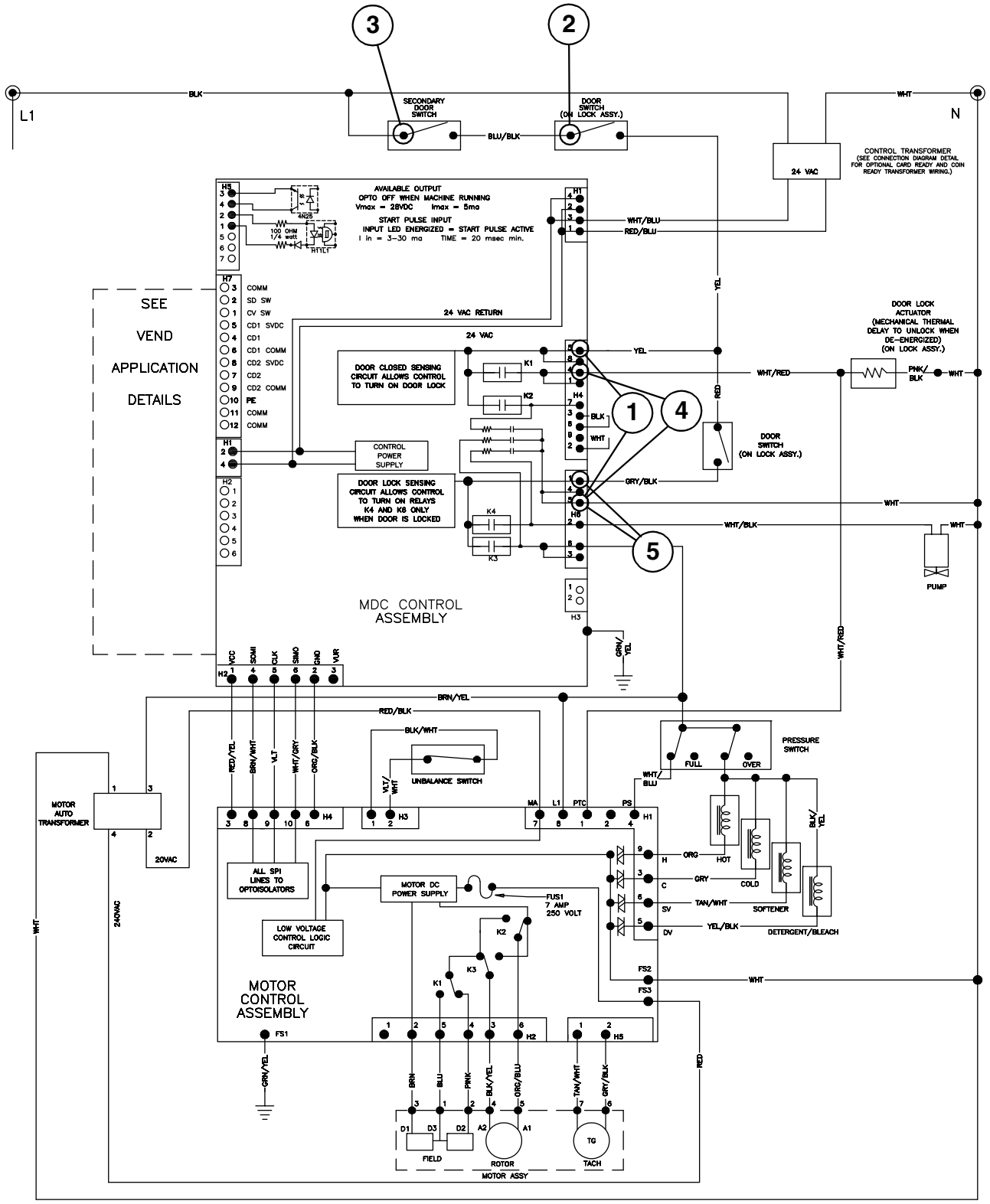
WASHER WILL NOT START – NO DOOR LOCK



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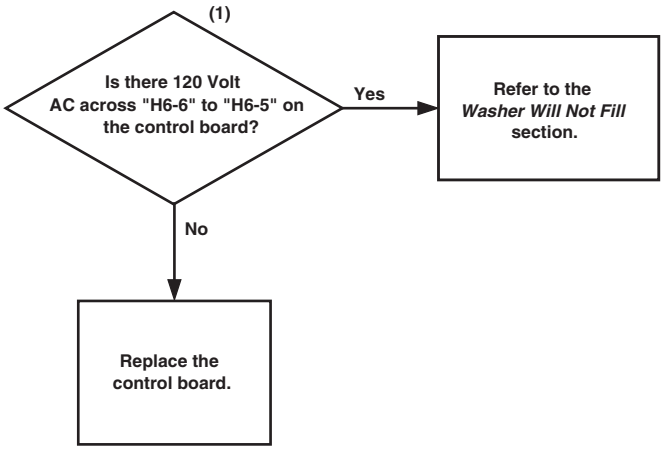
22. WASHER WILL NOT START – CONTROL ANALYSIS


(1)
Is there 120 Volt AC across "H6-6" to "H6-5" on the control board?
Yes
Refer to the *Washer Will Not Fill* section.
No
Replace the control board.

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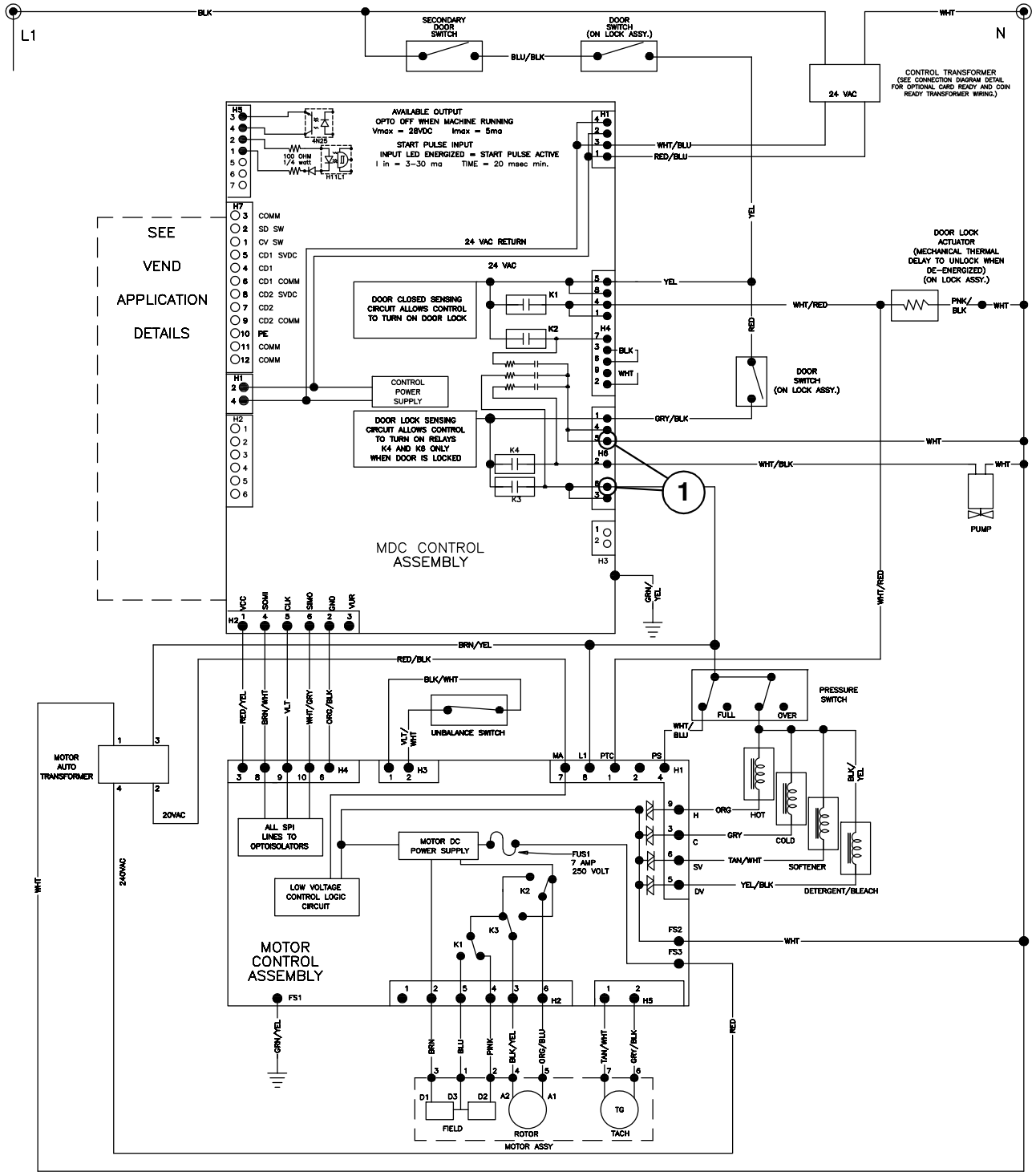
WASHER WILL NOT START – CONTROL ANALYSIS



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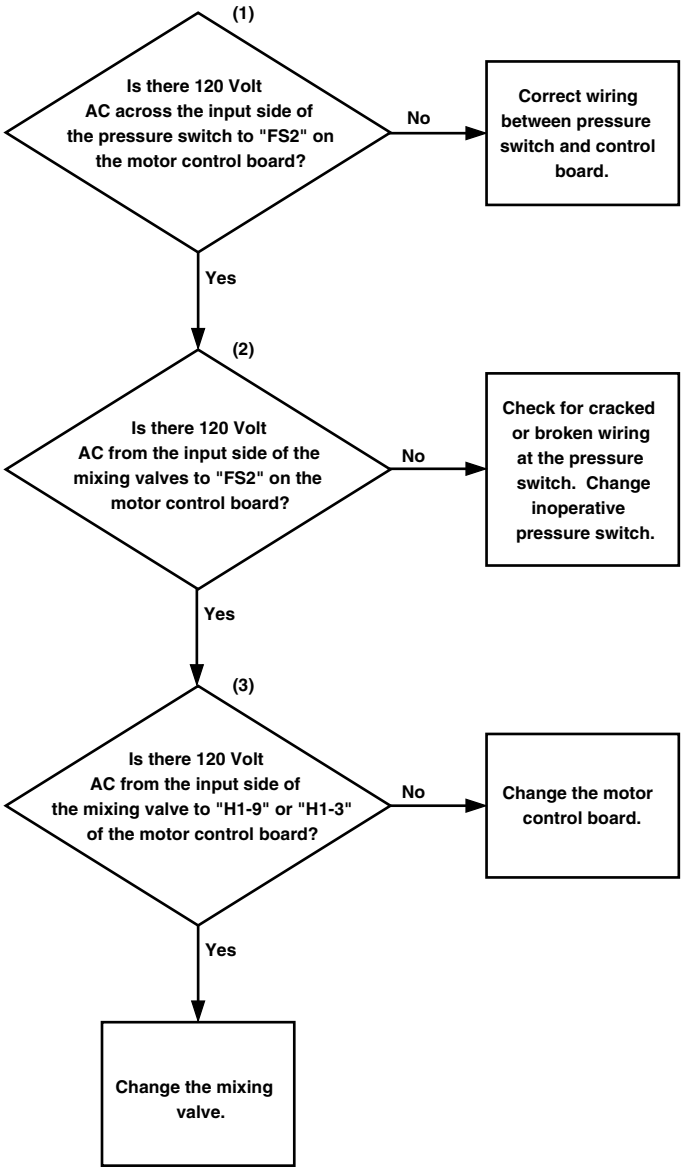
23. WASHER WILL NOT FILL


(1)
Is there 120 Volt AC across the input side of the pressure switch to "FS2" on the motor control board?
No
Correct wiring between pressure switch and control board.
Yes
(2)
Is there 120 Volt AC from the input side of the mixing valves to "FS2" on the motor control board?
No
Check for cracked or broken wiring at the pressure switch. Change inoperative pressure switch.
Yes
(3)
Is there 120 Volt AC from the input side of the mixing valve to "H1-9" or "H1-3" of the motor control board?
No
Change the motor control board.
Yes
Change the mixing valve.

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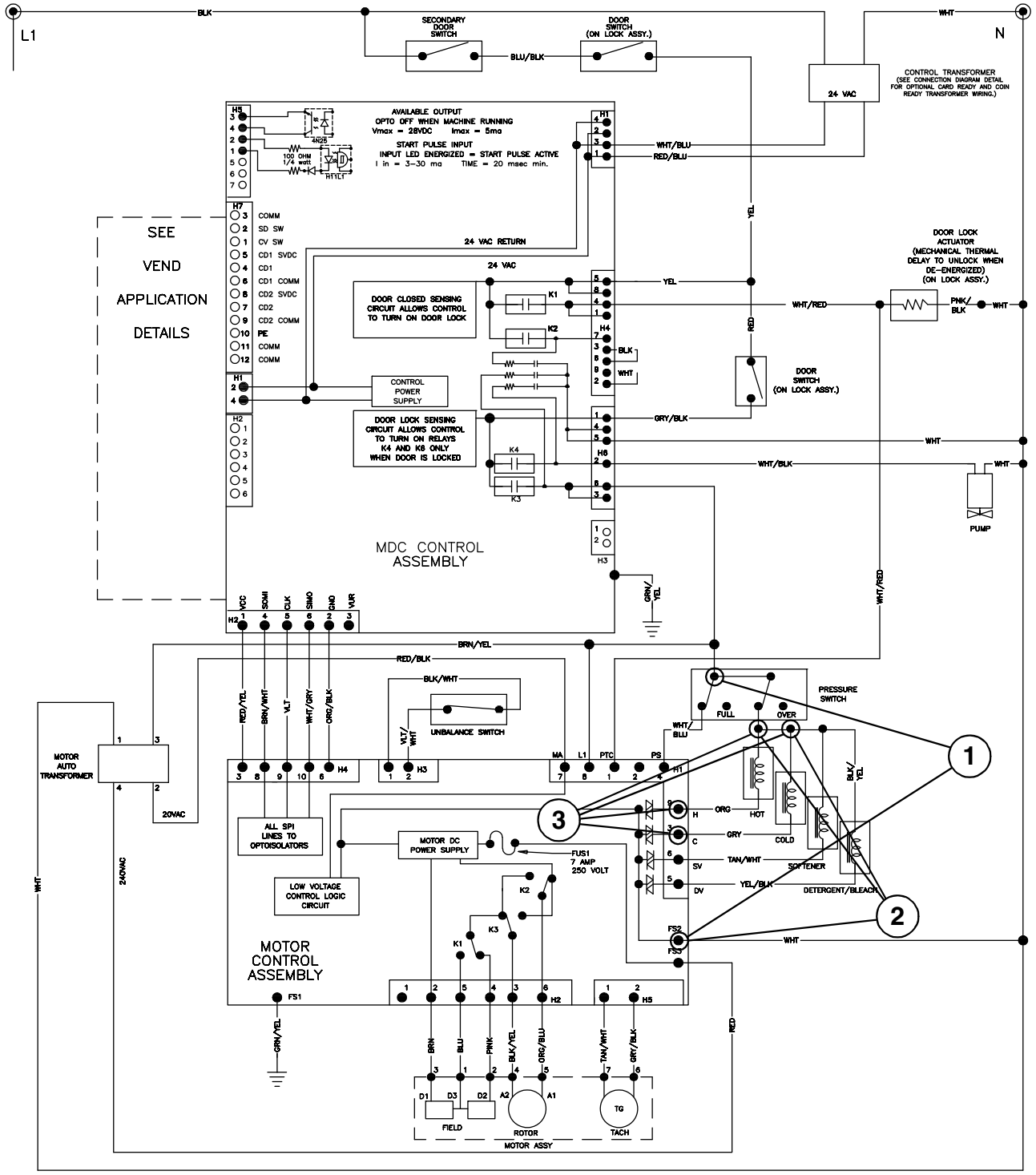
WASHER WILL NOT FILL



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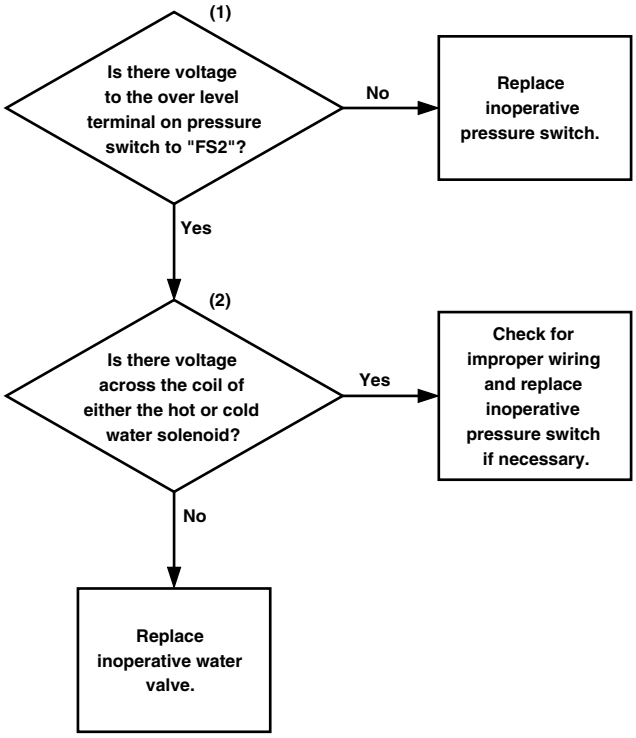
24. WASHER OVERFLOWS


(1)
Is there voltage to the over level terminal on pressure switch to "FS2"?
No
Replace inoperative pressure switch.
Yes
(2)
Is there voltage across the coil of either the hot or cold water solenoid?
Yes
Check for improper wiring and replace inoperative pressure switch if necessary.
No
Replace inoperative water valve.

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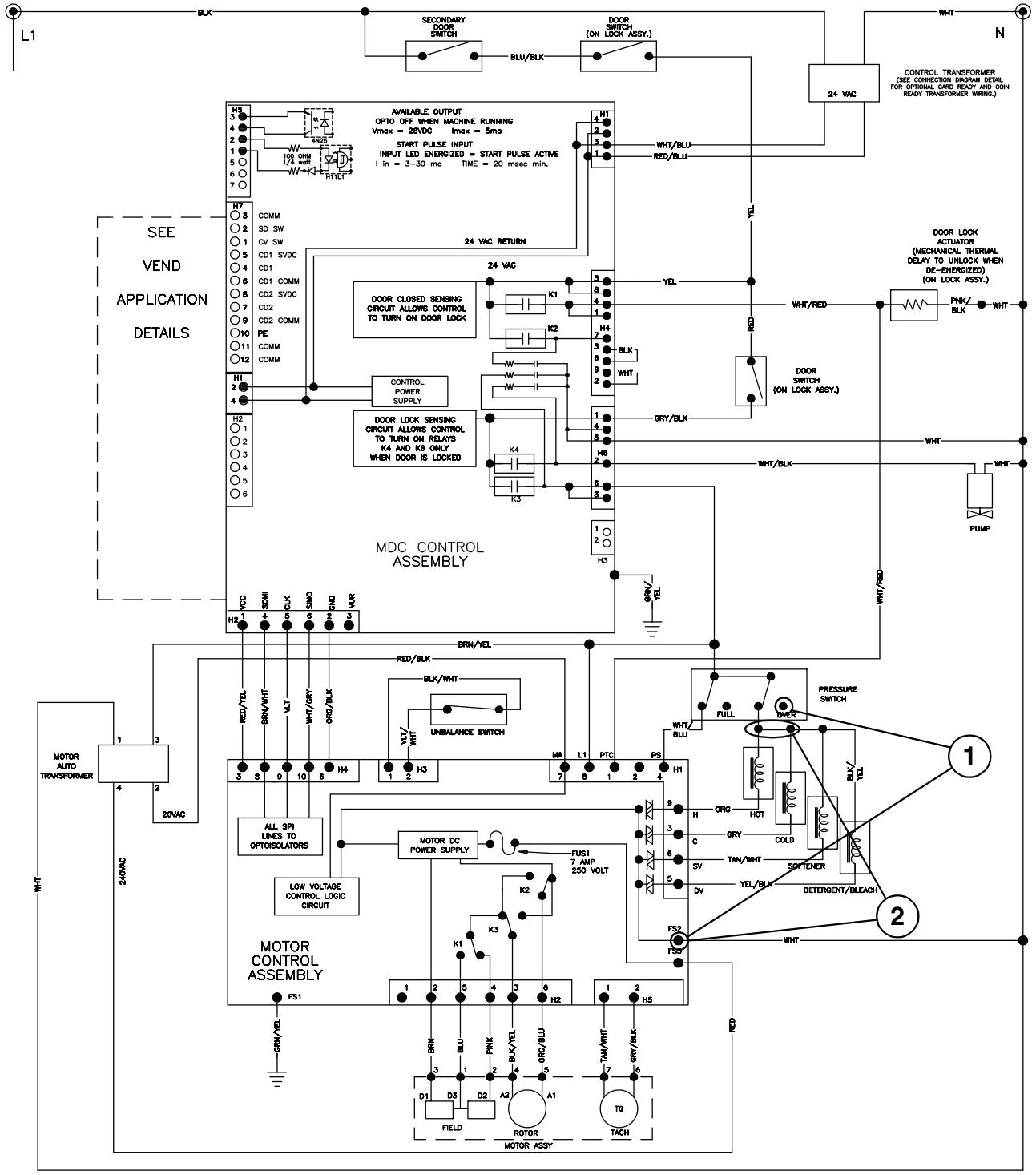
WASHER OVERFLOWS



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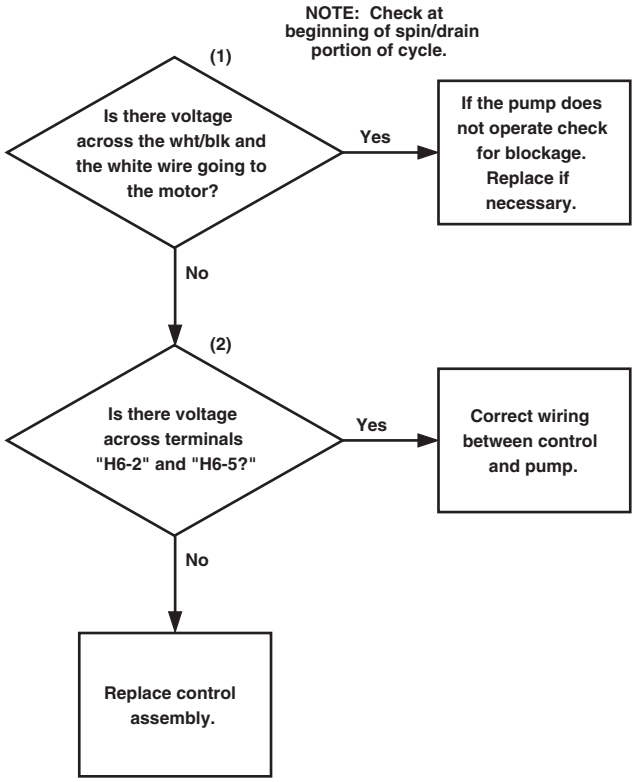
25. PUMP DOES NOT OPERATE


NOTE: Check at beginning of spin/drain portion of cycle.
(1)
Is there voltage across the wht/blk and the white wire going to the motor?
Yes
If the pump does not operate check for blockage. Replace if necessary.
No
(2)
Is there voltage across terminals "H6-2" and "H6-5?"
Yes
Correct wiring between control and pump.
No
Replace control assembly.

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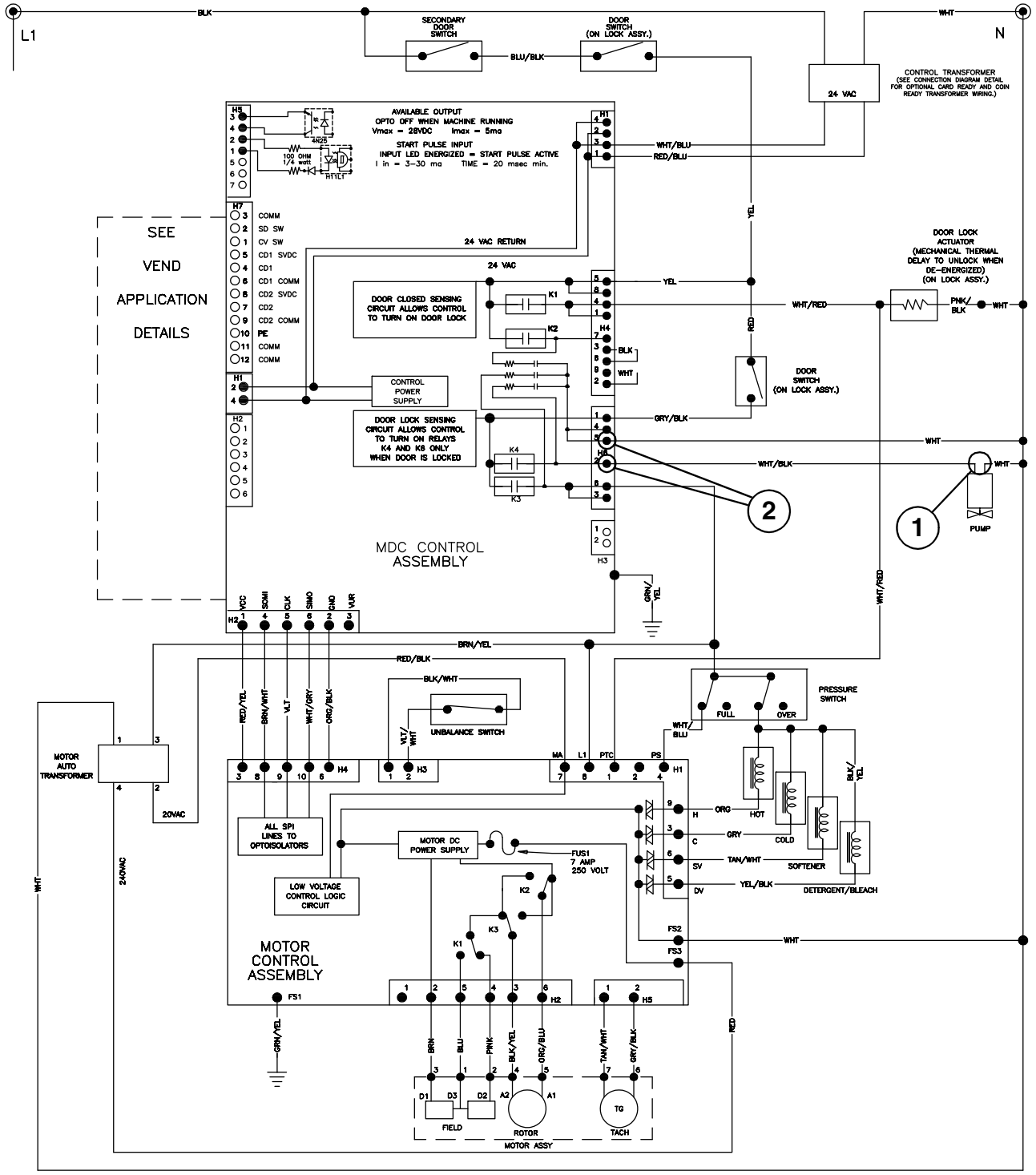
PUMP DOES NOT OPERATE



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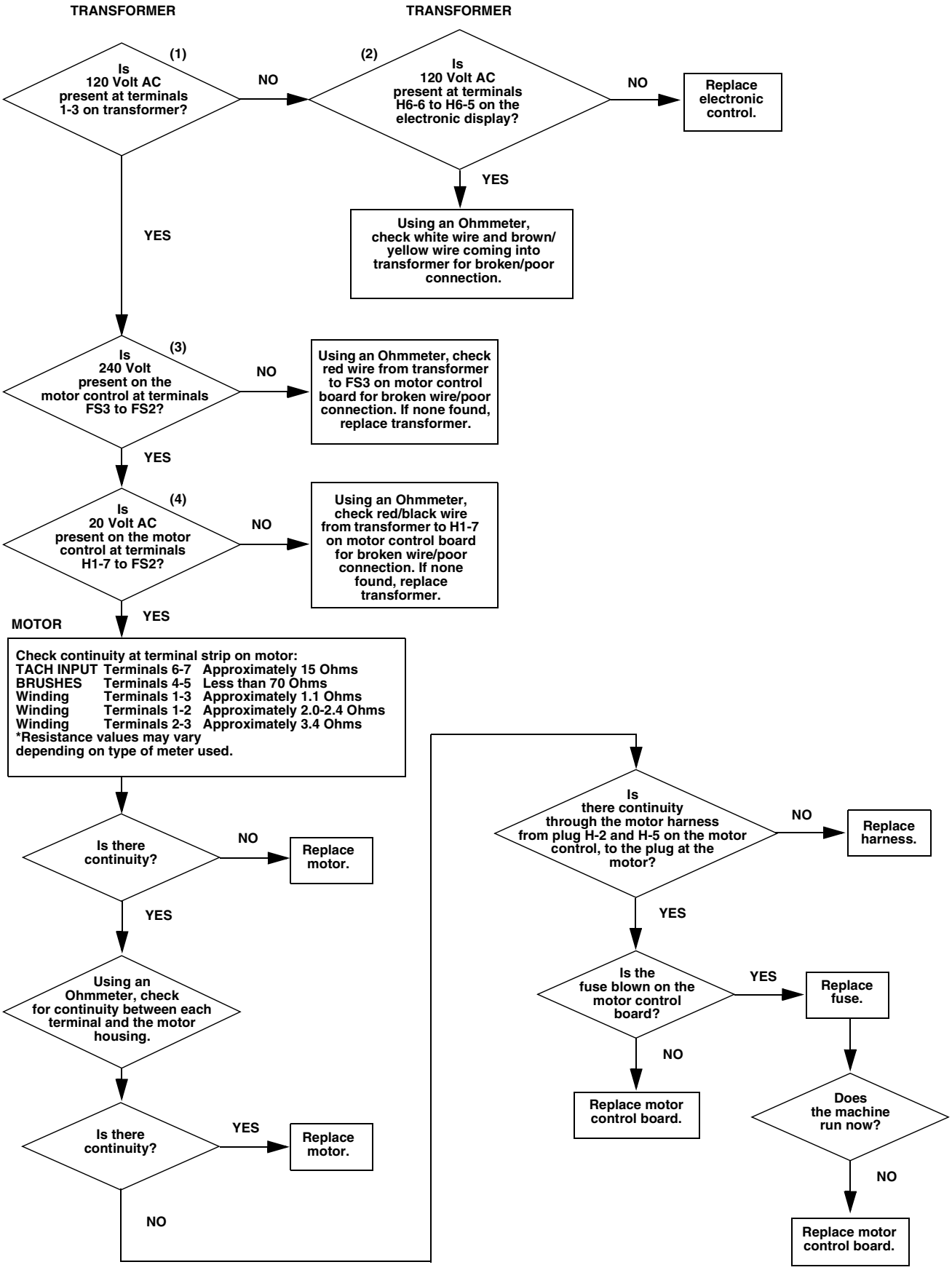
26. DOOR LOCKED, MOTOR DOES NOT RUN (E:DF ON DISPLAY)


TRANSFORMER
TRANSFORMER
(1)
Is 120 Volt AC present at terminals 1-3 on transformer?
NO
(2)
Is 120 Volt AC present at terminals H6-6 to H6-5 on the electronic display?
NO
Replace electronic control.
YES
Using an Ohmmeter, check white wire and brown/ yellow wire coming into transformer for broken/poor connection.
YES
(3)
Is 240 Volt present on the motor control at terminals FS3 to FS2?
NO
Using an Ohmmeter, check red wire from transformer to FS3 on motor control board for broken wire/poor connection. If none found, replace transformer.
YES
(4)
Is 20 Volt AC present on the motor control at terminals H1-7 to FS2?
NO
Using an Ohmmeter, check red/black wire from transformer to H1-7 on motor control board for broken wire/poor connection. If none found, replace transformer.
YES
MOTOR
Check continuity at terminal strip on motor:
TACH INPUT Terminals 6-7 Approximately 15 Ohms
BRUSHES Terminals 4-5 Less than 70 Ohms
Winding Terminals 1-3 Approximately 1.1 Ohms
Winding Terminals 1-2 Approximately 2.0-2.4 Ohms
Winding Terminals 2-3 Approximately 3.4 Ohms
*Resistance values may vary depending on type of meter used.
Is there continuity?
NO
Replace motor.
YES
Using an Ohmmeter, check for continuity between each terminal and the motor housing.
Is there continuity?
YES
Replace motor.
NO
Is there continuity through the motor harness from plug H-2 and H-5 on the motor control, to the plug at the motor?
NO
Replace harness.
YES
Is the fuse blown on the motor control board?
YES
Replace fuse.
NO
Replace motor control board.
Does the machine run now?
NO
Replace motor control board.

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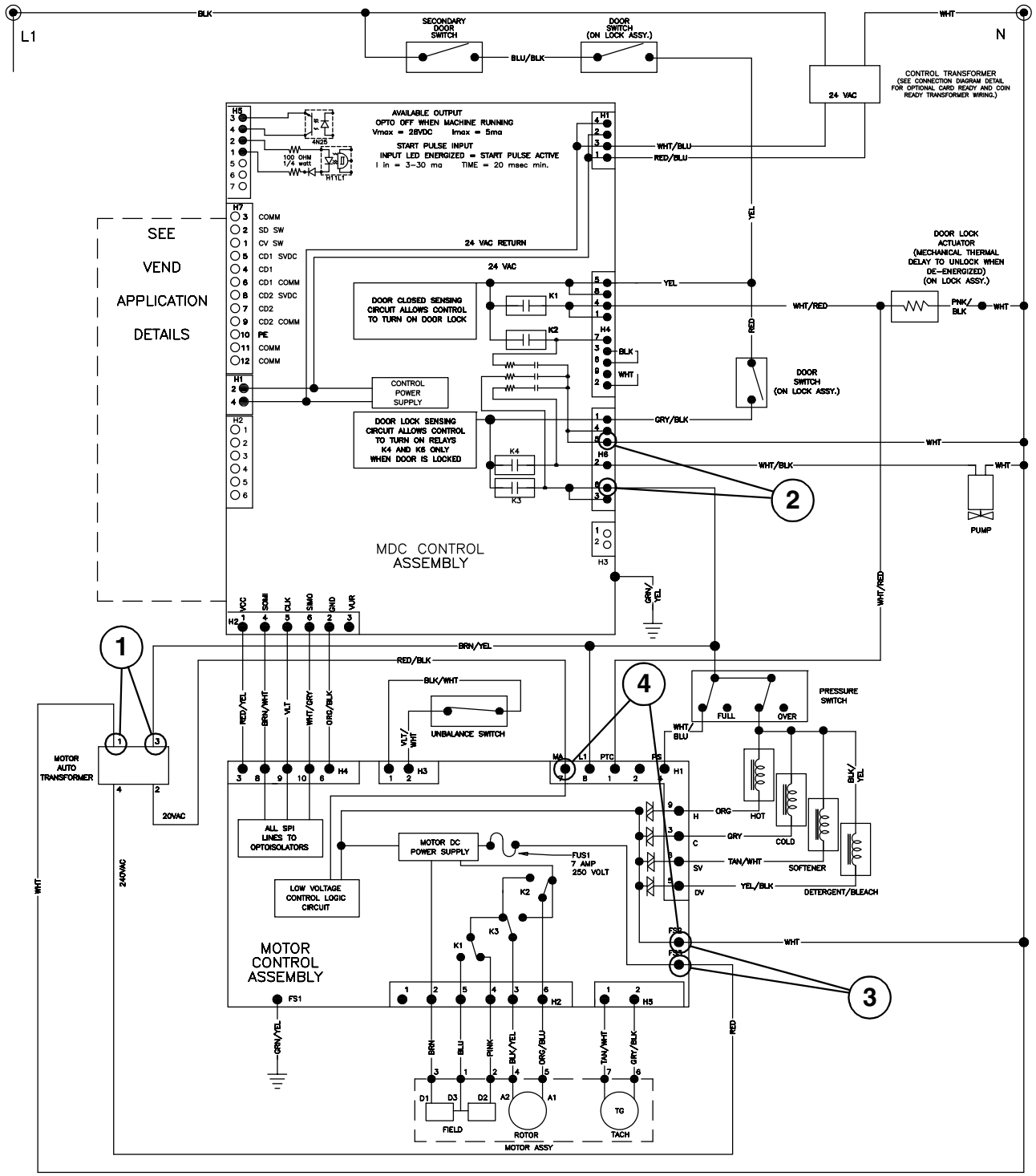
DOOR LOCKED, MOTOR DOES NOT RUN (E:DF ON DISPLAY)



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NetMaster Models

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

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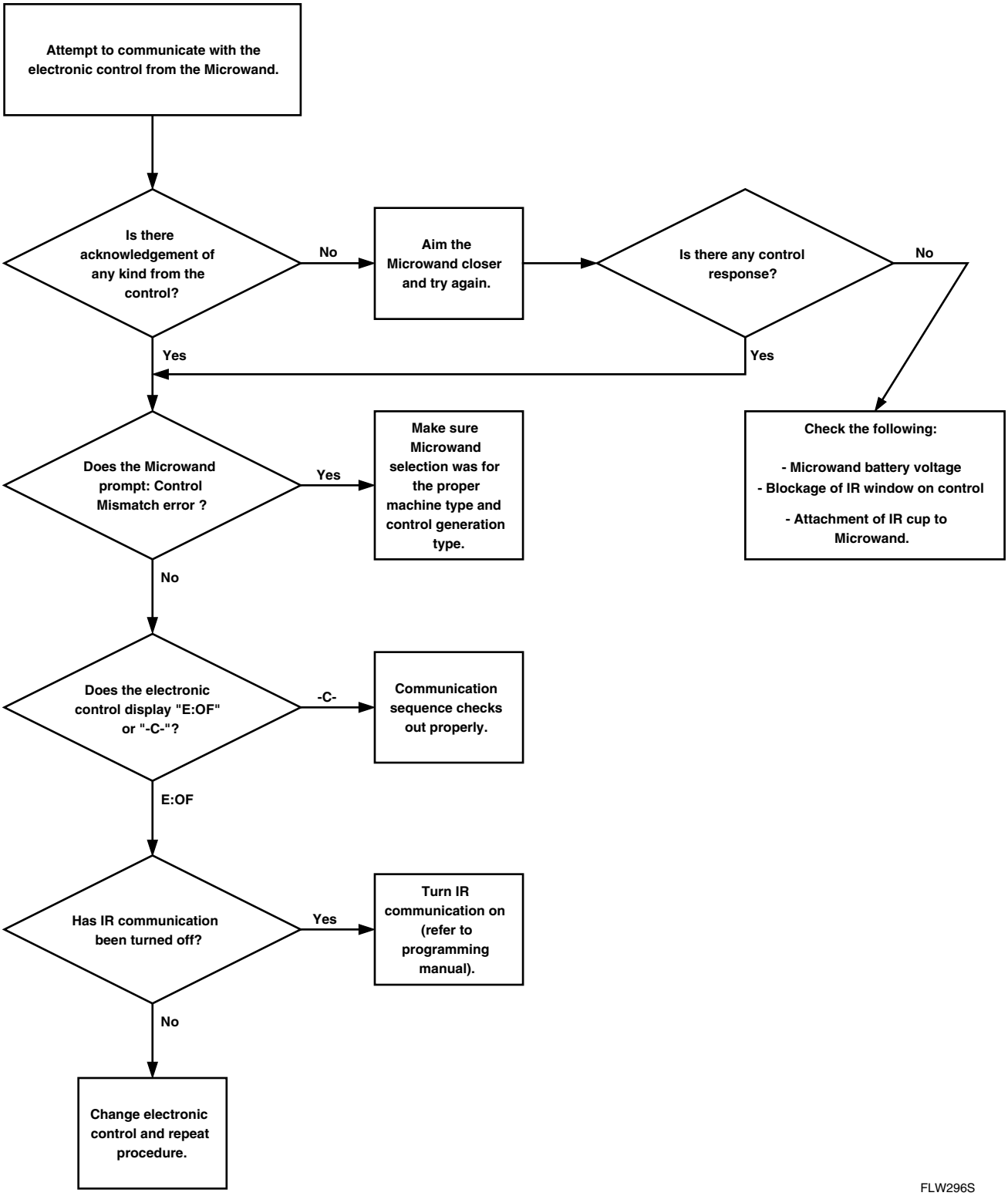
27. MICROWAND DOES NOT COMMUNICATE WITH CONTROL


Attempt to communicate with the electronic control from the Microwand.
Is there acknowledgement of any kind from the control?
No
Aim the Microwand closer and try again.
Is there any control response?
No
Yes
Yes
Check the following:
- Microwand battery voltage
- Blockage of IR window on control
- Attachment of IR cup to Microwand.
Does the Microwand prompt: Control Mismatch error ?
Yes
Make sure Microwand selection was for the proper machine type and control generation type.
No
Does the electronic control display "E:OF" or "-C-"?
-C-
Communication sequence checks out properly.
E:OF
Has IR communication been turned off?
Yes
Turn IR communication on (refer to programming manual).
No
Change electronic control and repeat procedure.
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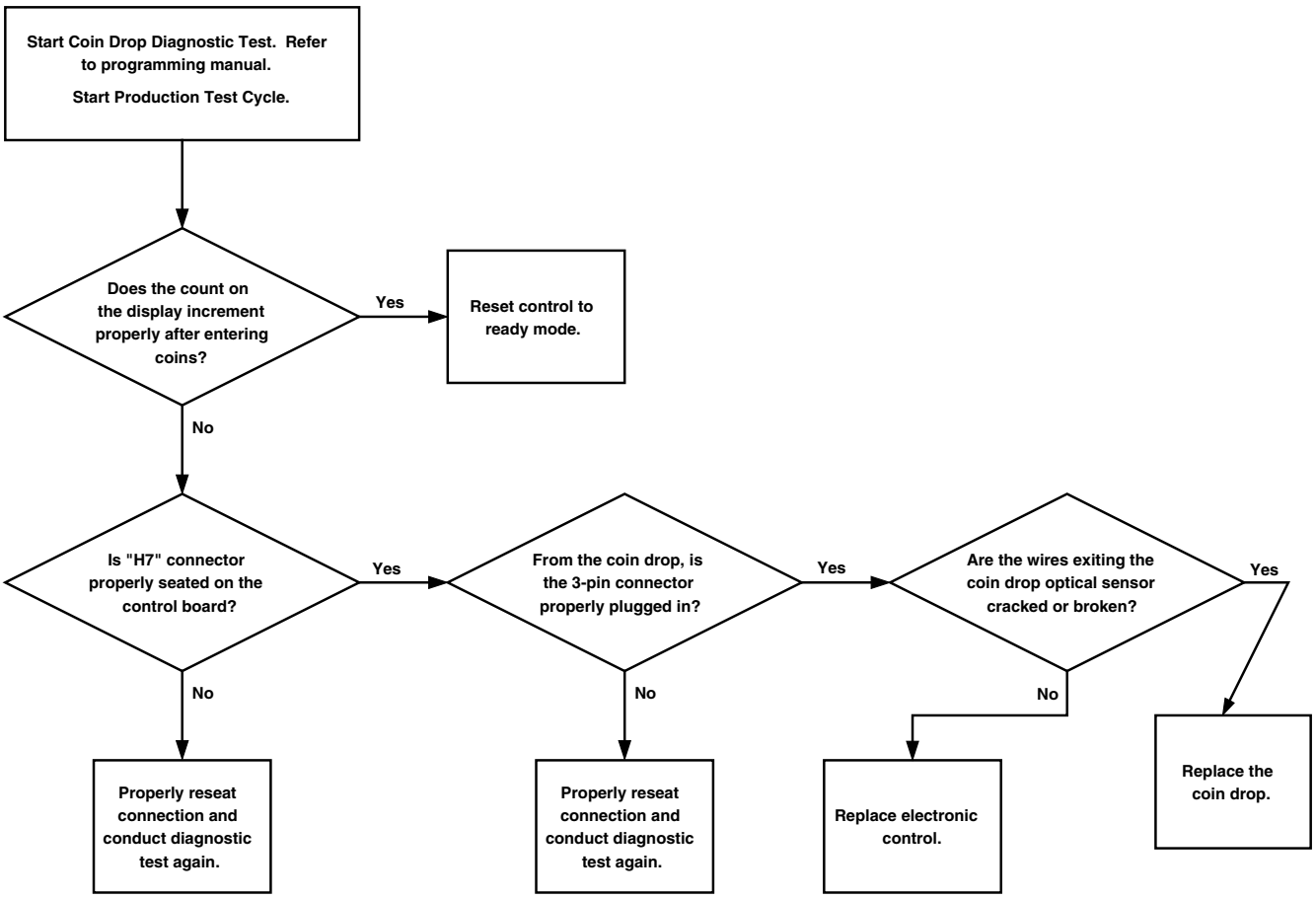
28. COINS IGNORED WHEN ENTERED


Start Coin Drop Diagnostic Test. Refer to programming manual.
Start Production Test Cycle.
Does the count on the display increment properly after entering coins?
Yes
Reset control to ready mode.
No
Is "H7" connector properly seated on the control board?
Yes
From the coin drop, is the 3-pin connector properly plugged in?
Yes
Are the wires exiting the coin drop optical sensor cracked or broken?
Yes
No
No
No
Properly reseat connection and conduct diagnostic test again.
Properly reseat connection and conduct diagnostic test again.
Replace electronic control.
Replace the coin drop.

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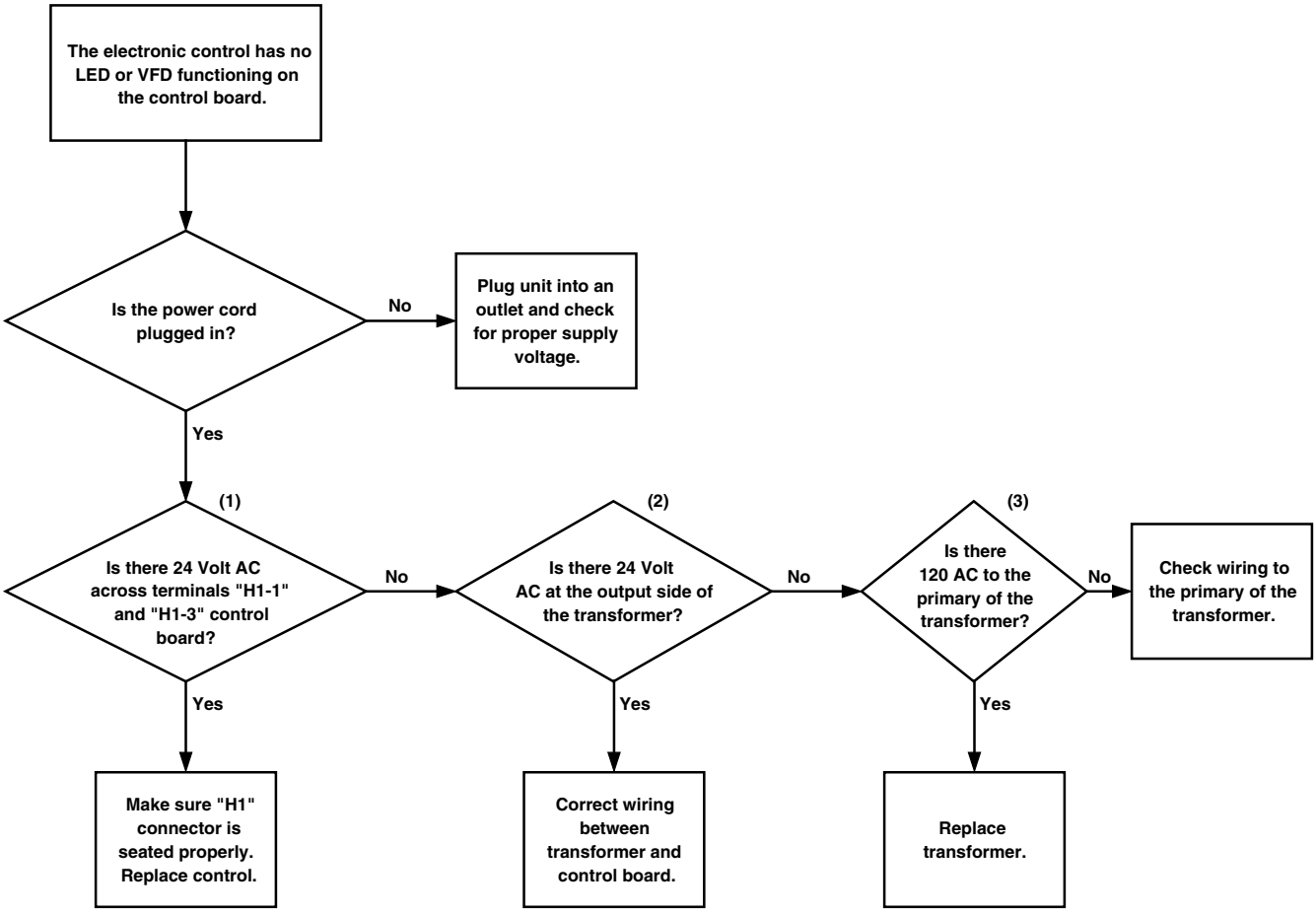
29. NO VISIBLE DISPLAY ON CONTROL


The electronic control has no LED or VFD functioning on the control board.
Is the power cord plugged in?
No
Plug unit into an outlet and check for proper supply voltage.
Yes
(1)
Is there 24 Volt AC across terminals "H1-1" and "H1-3" control board?
No
(2)
Is there 24 Volt AC at the output side of the transformer?
No
(3)
Is there 120 AC to the primary of the transformer?
No
Check wiring to the primary of the transformer.
Yes
Make sure "H1" connector is seated properly. Replace control.
Yes
Correct wiring between transformer and control board.
Yes
Replace transformer.

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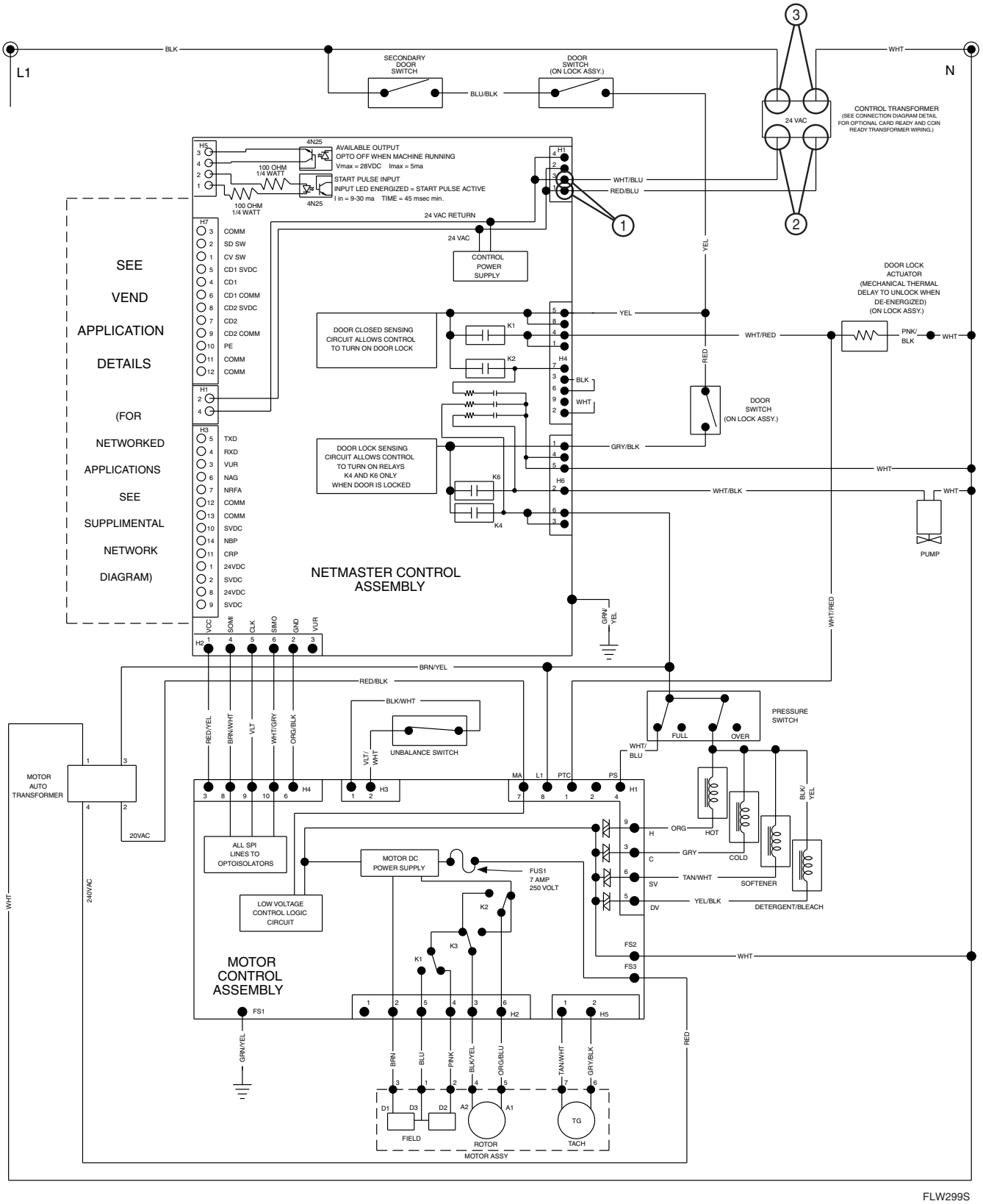
NO VISIBLE DISPLAY ON CONTROL



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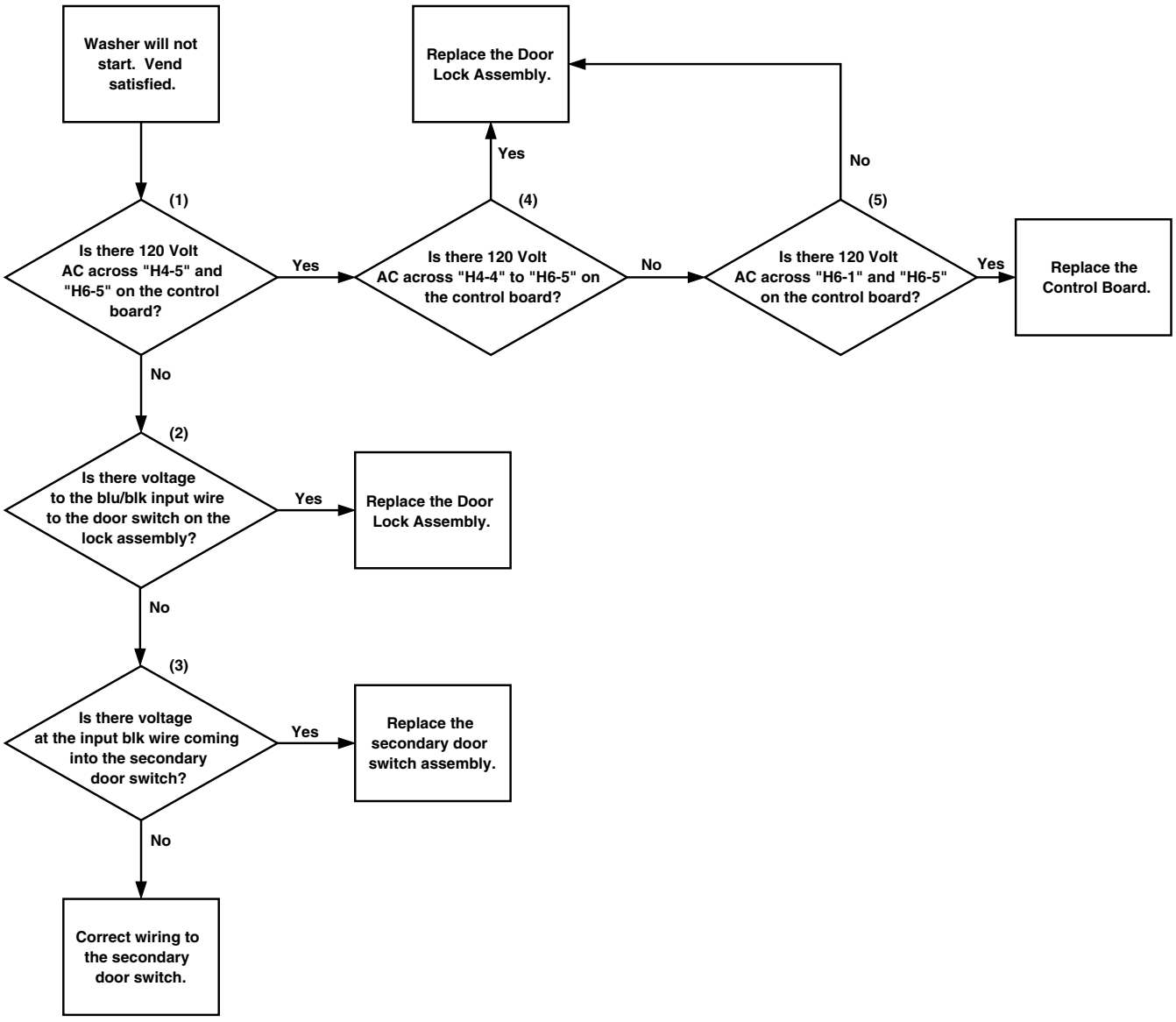
30. WASHER WILL NOT START – NO DOOR LOCK


Washer will not start. Vend satisfied.
(1)
Is there 120 Volt AC across "H4-5" and "H6-5" on the control board?
Yes
(4)
Is there 120 Volt AC across "H4-4" to "H6-5" on the control board?
Yes
Replace the Door Lock Assembly.
No
(5)
Is there 120 Volt AC across "H6-1" and "H6-5" on the control board?
Yes
Replace the Control Board.
No
(2)
Is there voltage to the blu/blk input wire to the door switch on the lock assembly?
Yes
Replace the Door Lock Assembly.
No
(3)
Is there voltage at the input blk wire coming into the secondary door switch?
Yes
Replace the secondary door switch assembly.
No
Correct wiring to the secondary door switch.

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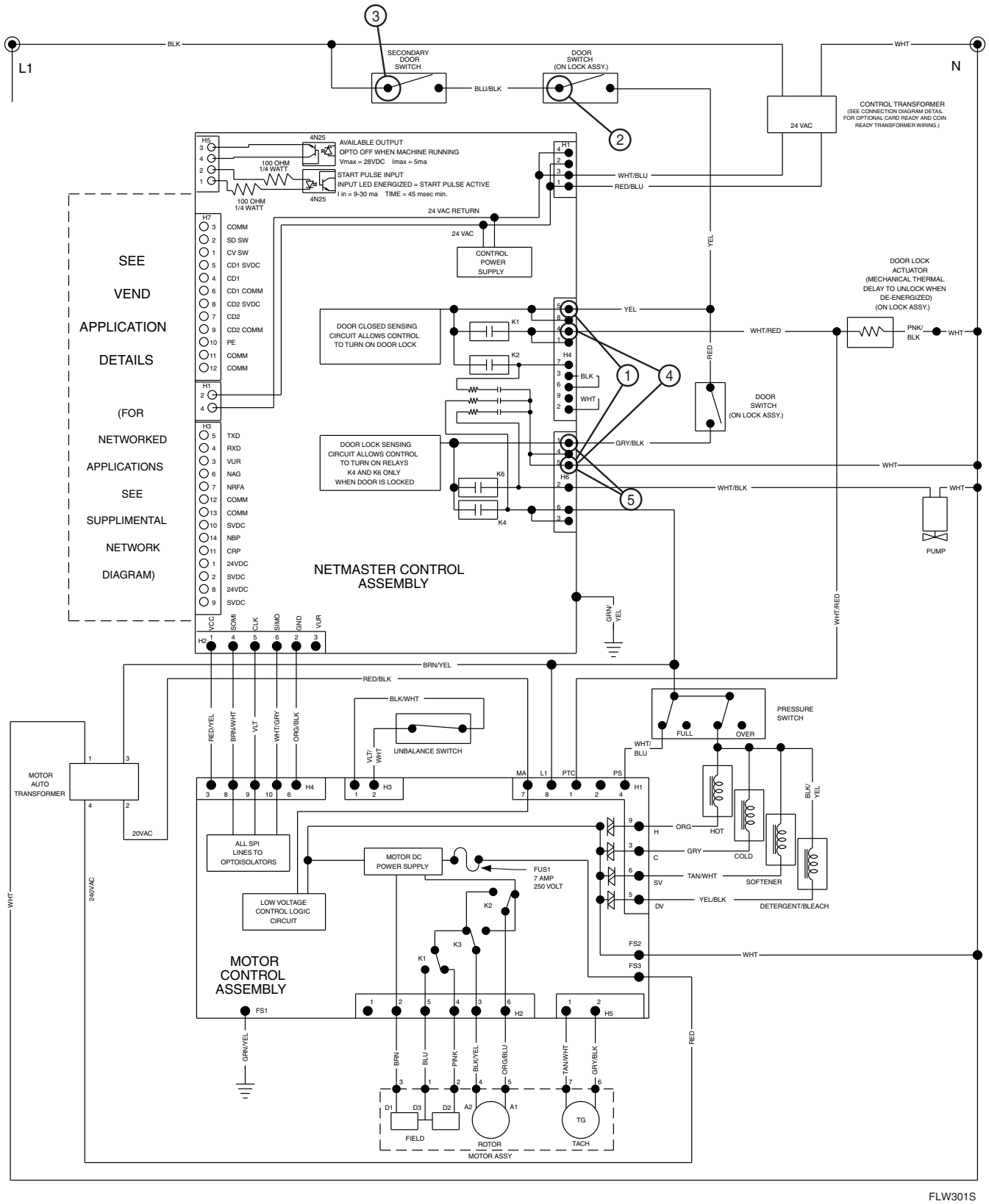
WASHER WILL NOT START – NO DOOR LOCK



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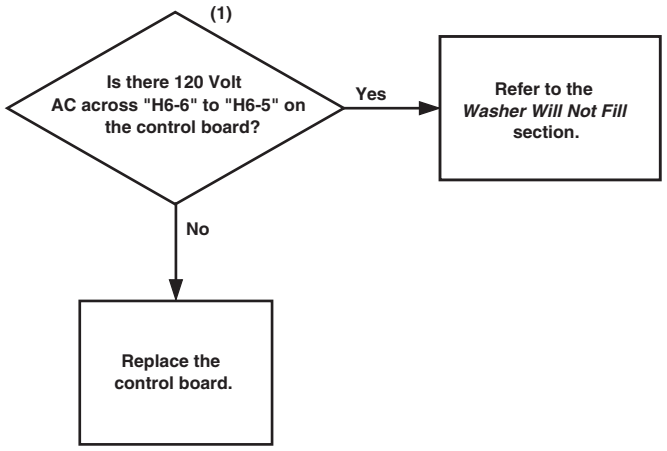
31. WASHER WILL NOT START – CONTROL ANALYSIS


(1)
Is there 120 Volt AC across "H6-6" to "H6-5" on the control board?
Yes
Refer to the *Washer Will Not Fill* section.
No
Replace the control board.

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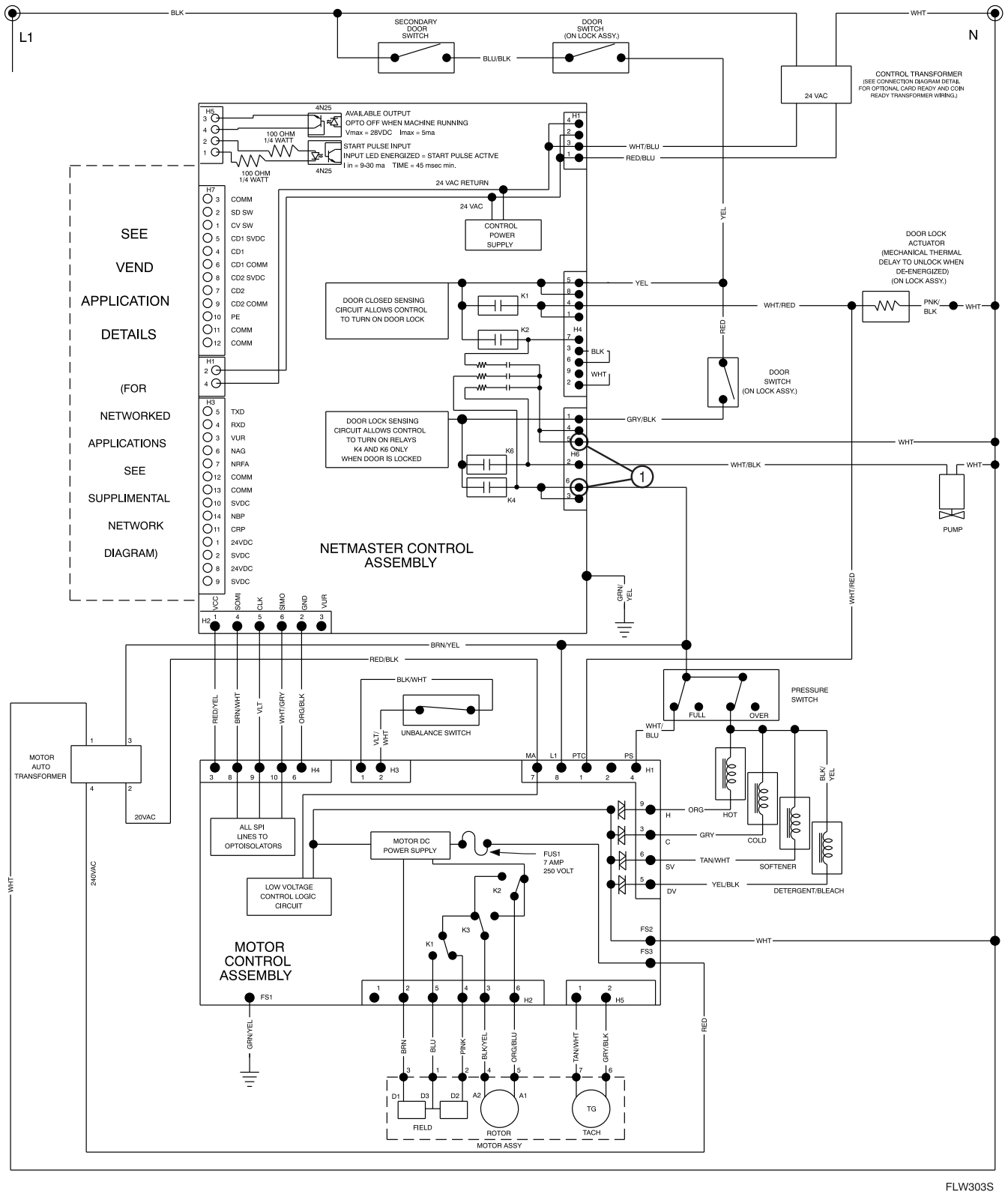
WASHER WILL NOT START – CONTROL ANALYSIS



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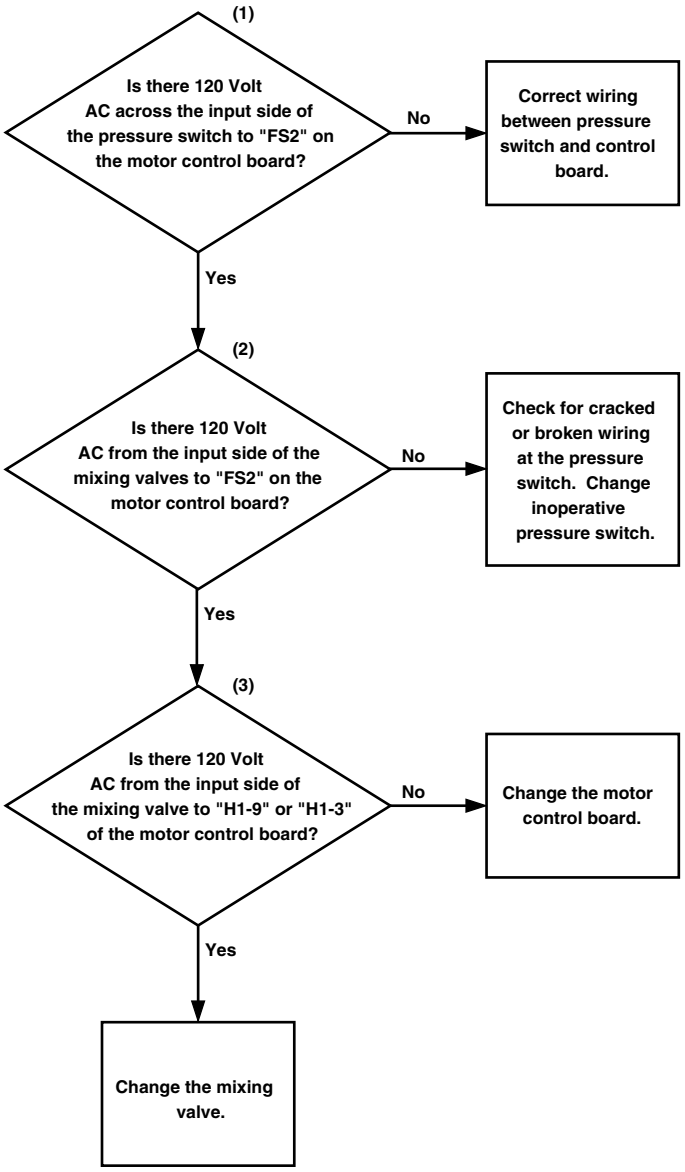
32. WASHER WILL NOT FILL


(1)
Is there 120 Volt AC across the input side of the pressure switch to "FS2" on the motor control board?
No
Correct wiring between pressure switch and control board.
Yes
(2)
Is there 120 Volt AC from the input side of the mixing valves to "FS2" on the motor control board?
No
Check for cracked or broken wiring at the pressure switch. Change inoperative pressure switch.
Yes
(3)
Is there 120 Volt AC from the input side of the mixing valve to "H1-9" or "H1-3" of the motor control board?
No
Change the motor control board.
Yes
Change the mixing valve.

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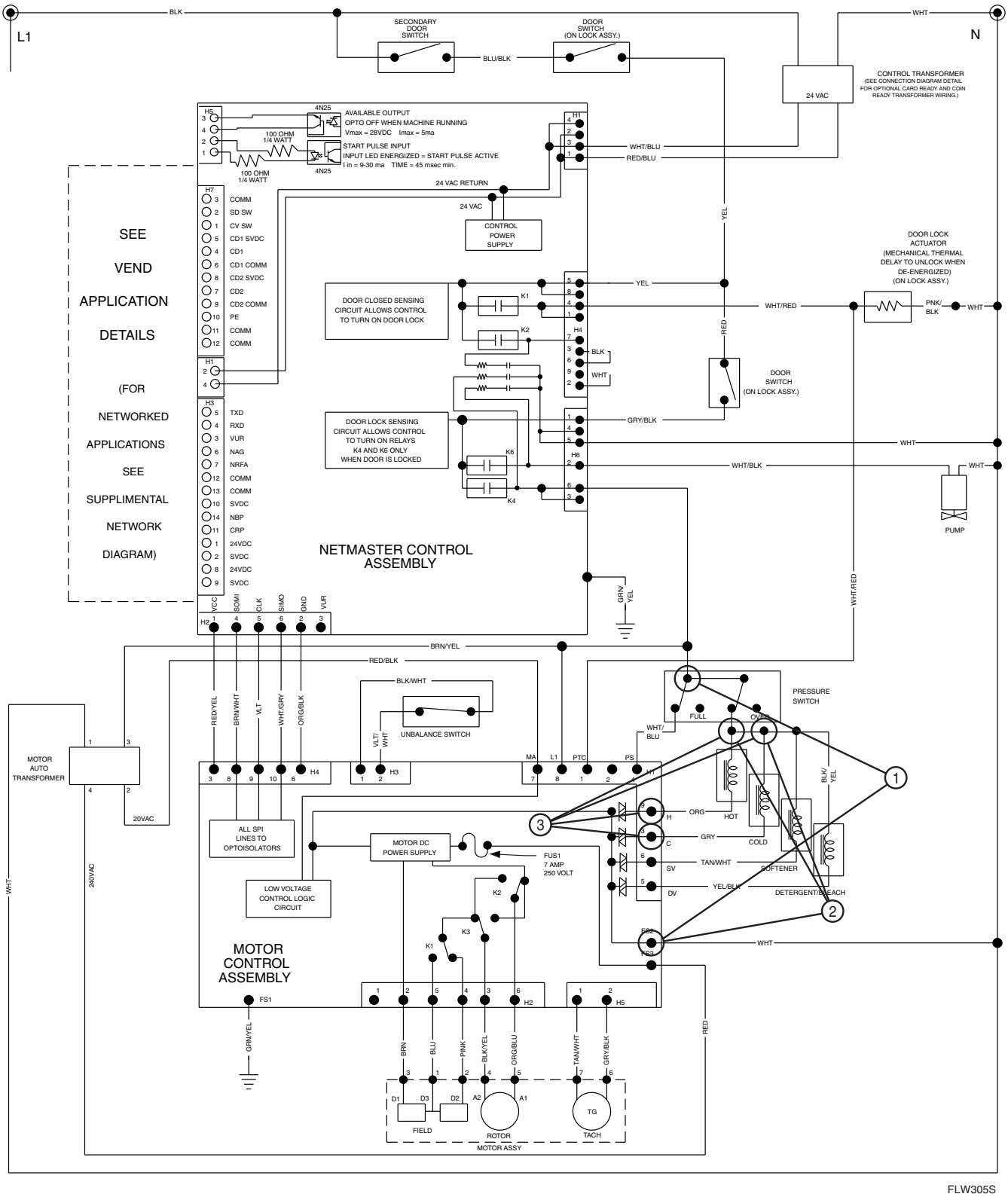
WASHER WILL NOT FILL



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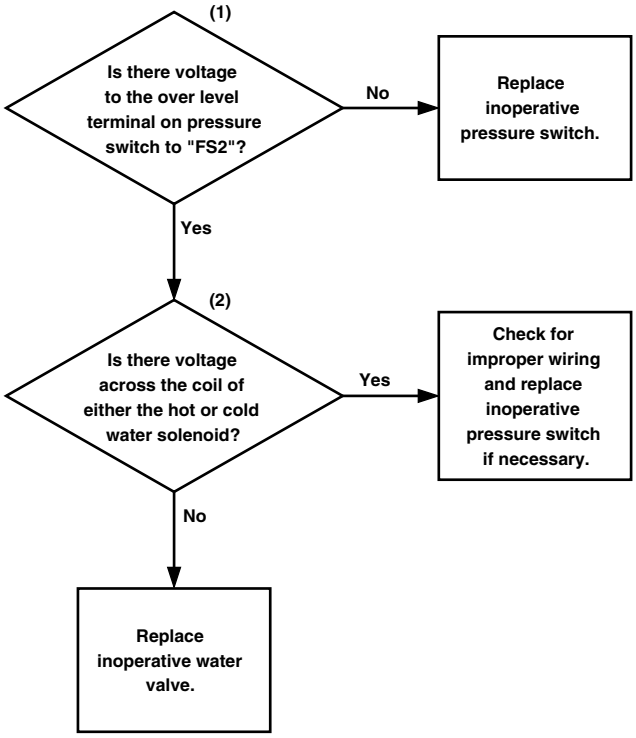
33. WASHER OVERFLOWS


(1)
Is there voltage to the over level terminal on pressure switch to "FS2"?
No
Replace inoperative pressure switch.
Yes
(2)
Is there voltage across the coil of either the hot or cold water solenoid?
Yes
Check for improper wiring and replace inoperative pressure switch if necessary.
No
Replace inoperative water valve.

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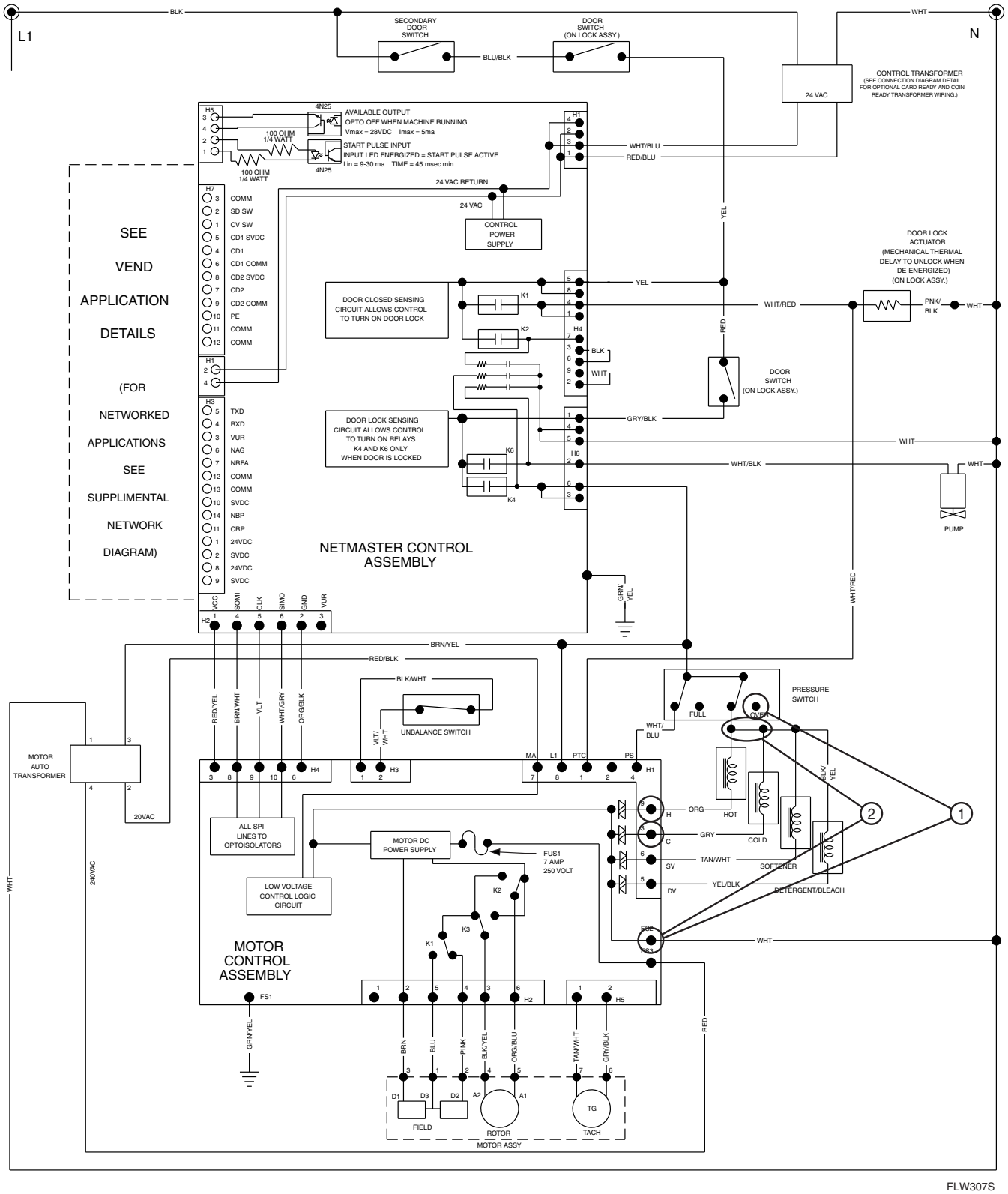
WASHER OVERFLOWS



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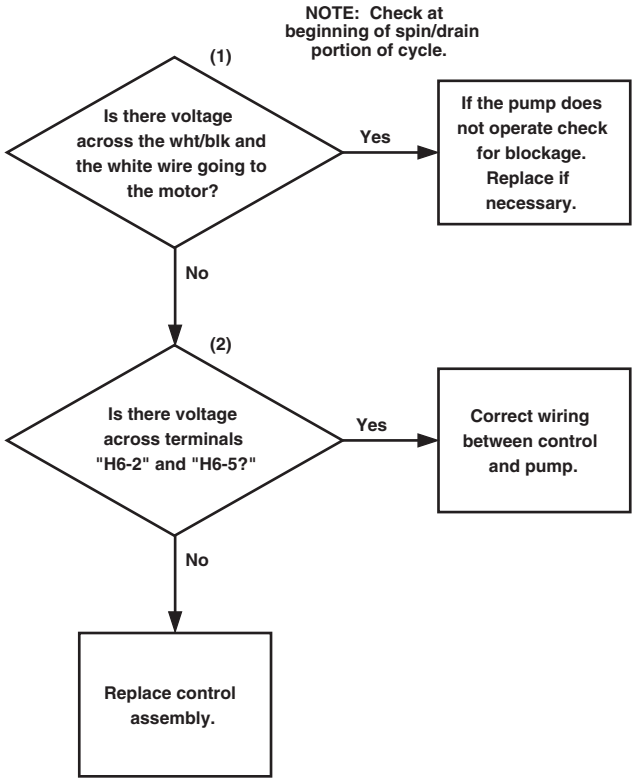
34. PUMP DOES NOT OPERATE


NOTE: Check at beginning of spin/drain portion of cycle.
(1)
Is there voltage across the wht/blk and the white wire going to the motor?
Yes
If the pump does not operate check for blockage. Replace if necessary.
No
(2)
Is there voltage across terminals "H6-2" and "H6-5?"
Yes
Correct wiring between control and pump.
No
Replace control assembly.

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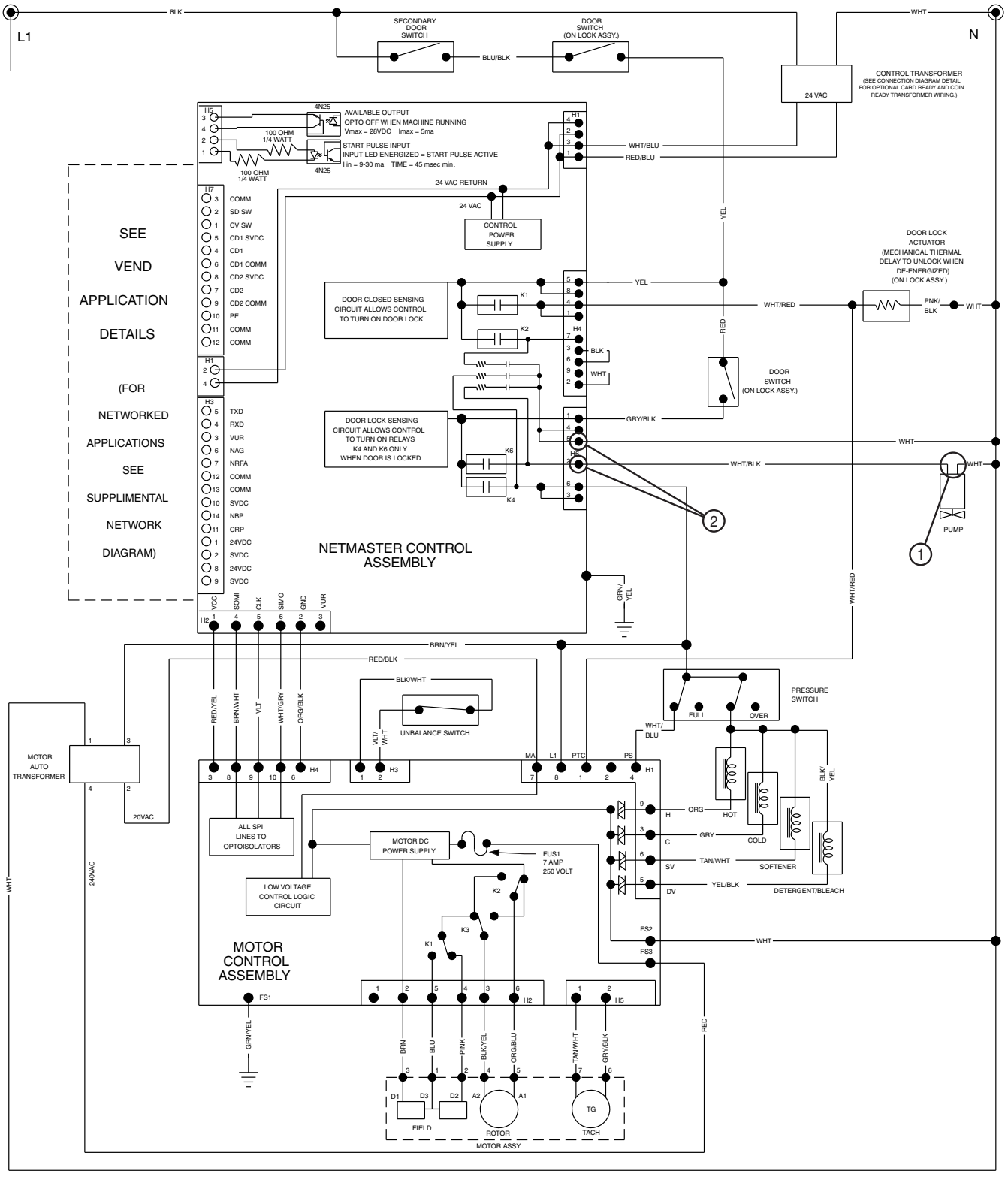
PUMP DOES NOT OPERATE



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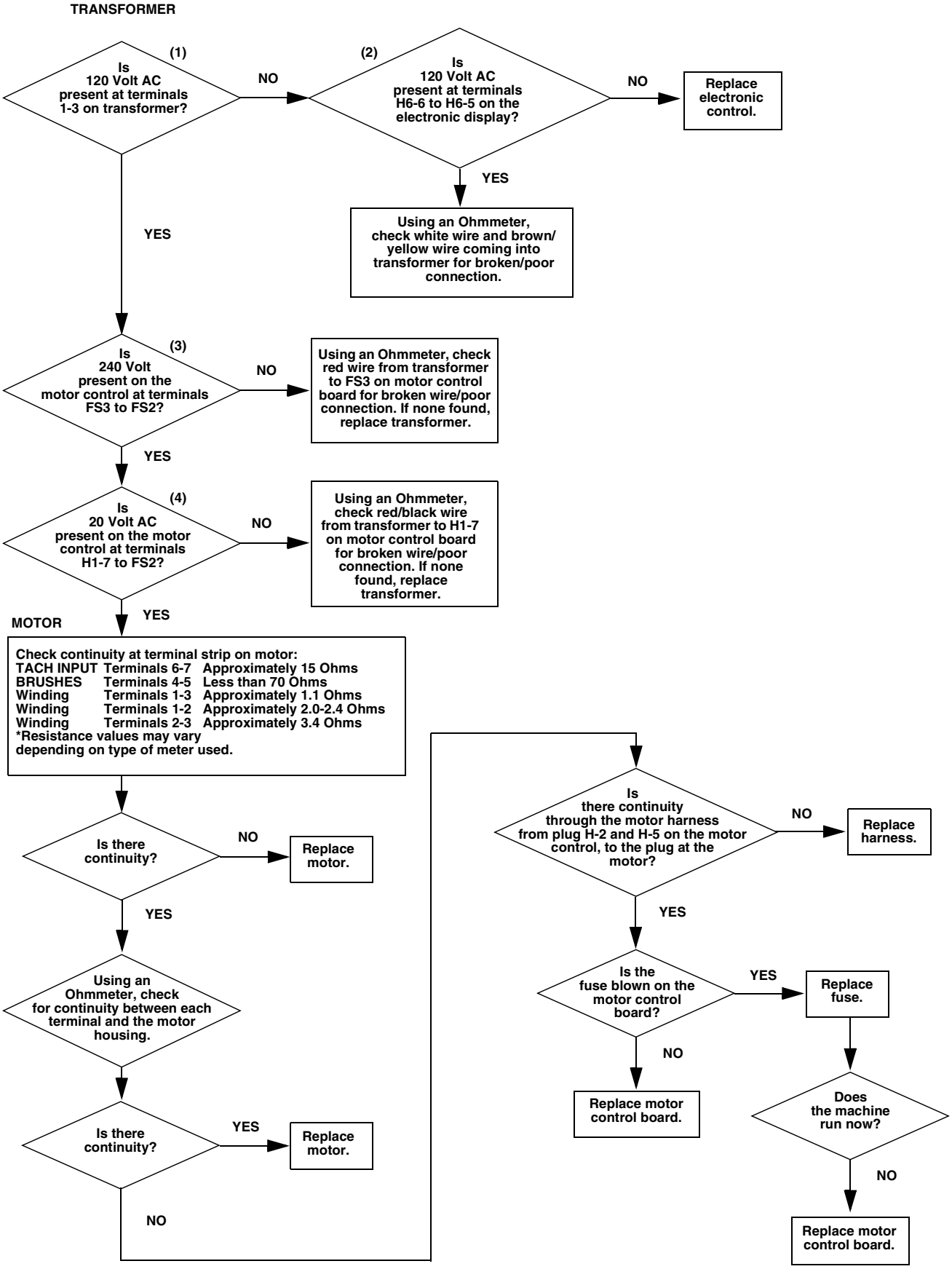
35. DOOR LOCKED, MOTOR DOES NOT RUN (E:DF ON DISPLAY)


TRANSFORMER
(1)
Is 120 Volt AC present at terminals 1-3 on transformer?
NO
(2)
Is 120 Volt AC present at terminals H6-6 to H6-5 on the electronic display?
NO
Replace electronic control.
YES
Using an Ohmmeter, check white wire and brown/ yellow wire coming into transformer for broken/poor connection.
YES
(3)
Is 240 Volt present on the motor control at terminals FS3 to FS2?
NO
Using an Ohmmeter, check red wire from transformer to FS3 on motor control board for broken wire/poor connection. If none found, replace transformer.
YES
(4)
Is 20 Volt AC present on the motor control at terminals H1-7 to FS2?
NO
Using an Ohmmeter, check red/black wire from transformer to H1-7 on motor control board for broken wire/poor connection. If none found, replace transformer.
YES
MOTOR
Check continuity at terminal strip on motor:
TACH INPUT Terminals 6-7 Approximately 15 Ohms
BRUSHES Terminals 4-5 Less than 70 Ohms
Winding Terminals 1-3 Approximately 1.1 Ohms
Winding Terminals 1-2 Approximately 2.0-2.4 Ohms
Winding Terminals 2-3 Approximately 3.4 Ohms
*Resistance values may vary depending on type of meter used.
Is there continuity?
NO
Replace motor.
YES
Using an Ohmmeter, check for continuity between each terminal and the motor housing.
Is there continuity?
YES
Replace motor.
NO
Is there continuity through the motor harness from plug H-2 and H-5 on the motor control, to the plug at the motor?
NO
Replace harness.
YES
Is the fuse blown on the motor control board?
YES
Replace fuse.
NO
Replace motor control board.
Does the machine run now?
NO
Replace motor control board.

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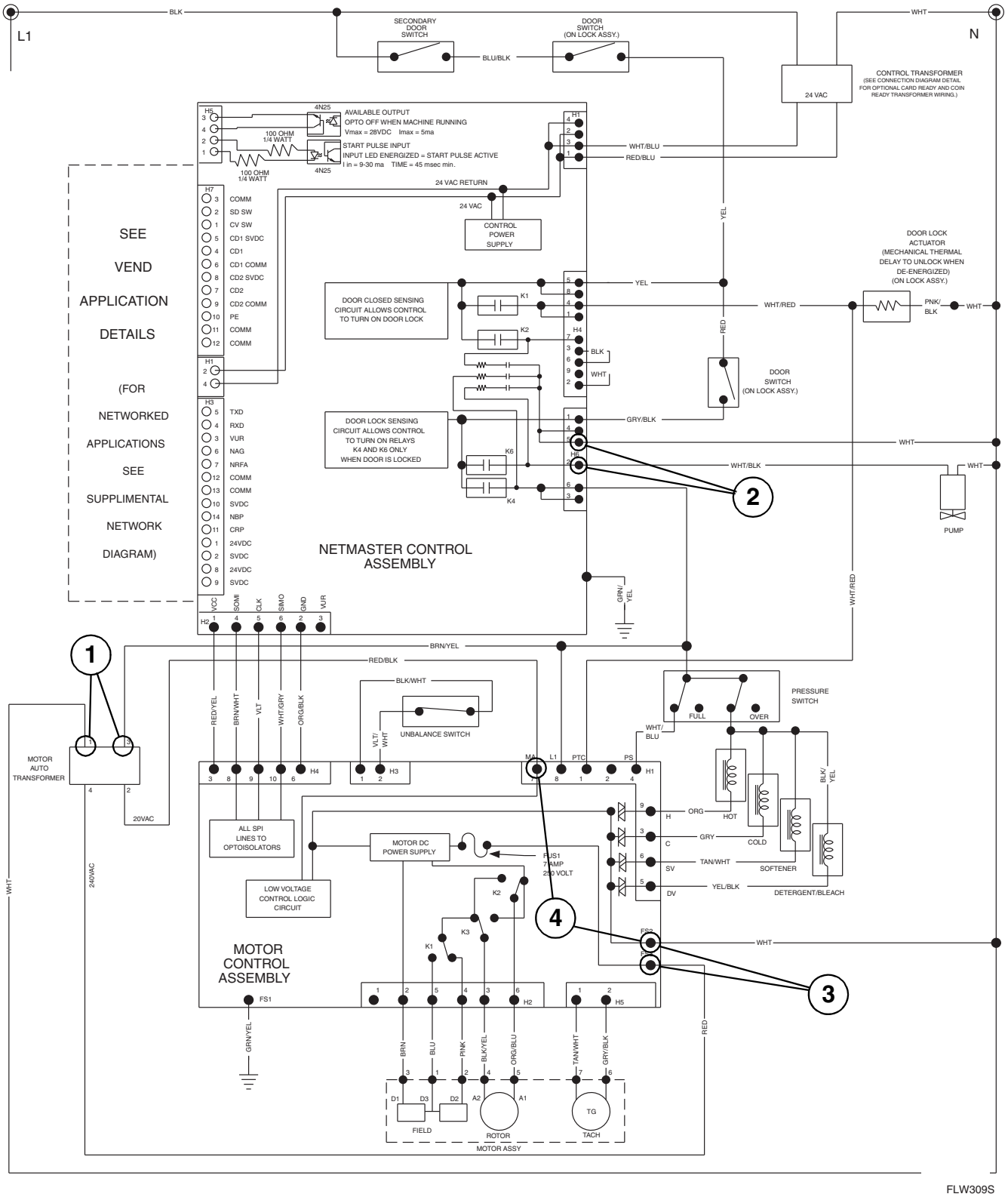
DOOR LOCKED, MOTOR DOES NOT RUN (E:DF ON DISPLAY)



FLW309S

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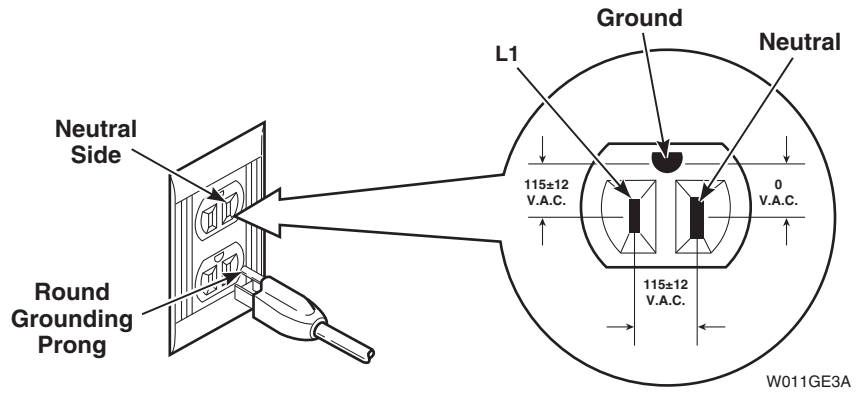
Section 4
Grounding

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

36. WALL RECEPTACLE POLARITY CHECK.
(*Figure 15*).



NOTE: Have a qualified electrician check polarity of wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.

Figure 15

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

37. MACHINE GROUND CONNECTIONS

(*Figure 16*)

1. Ground to Electronic Control
2. Ground to Control Panel Assembly
3. Ground to Control Cabinet
4. Ground to Motor Control Board
5. Ground to Control Shield
6. Ground Power Cord to Control Cabinet Wrapper
7. Grounding Hardware to Control Cabinet Wrapper
8. Ground to Motor
9. Ground to Electric Drain Pump
10. Ground to Motor Bracket
11. Ground to Outer Tub
12. Ground to Outer Tub Front

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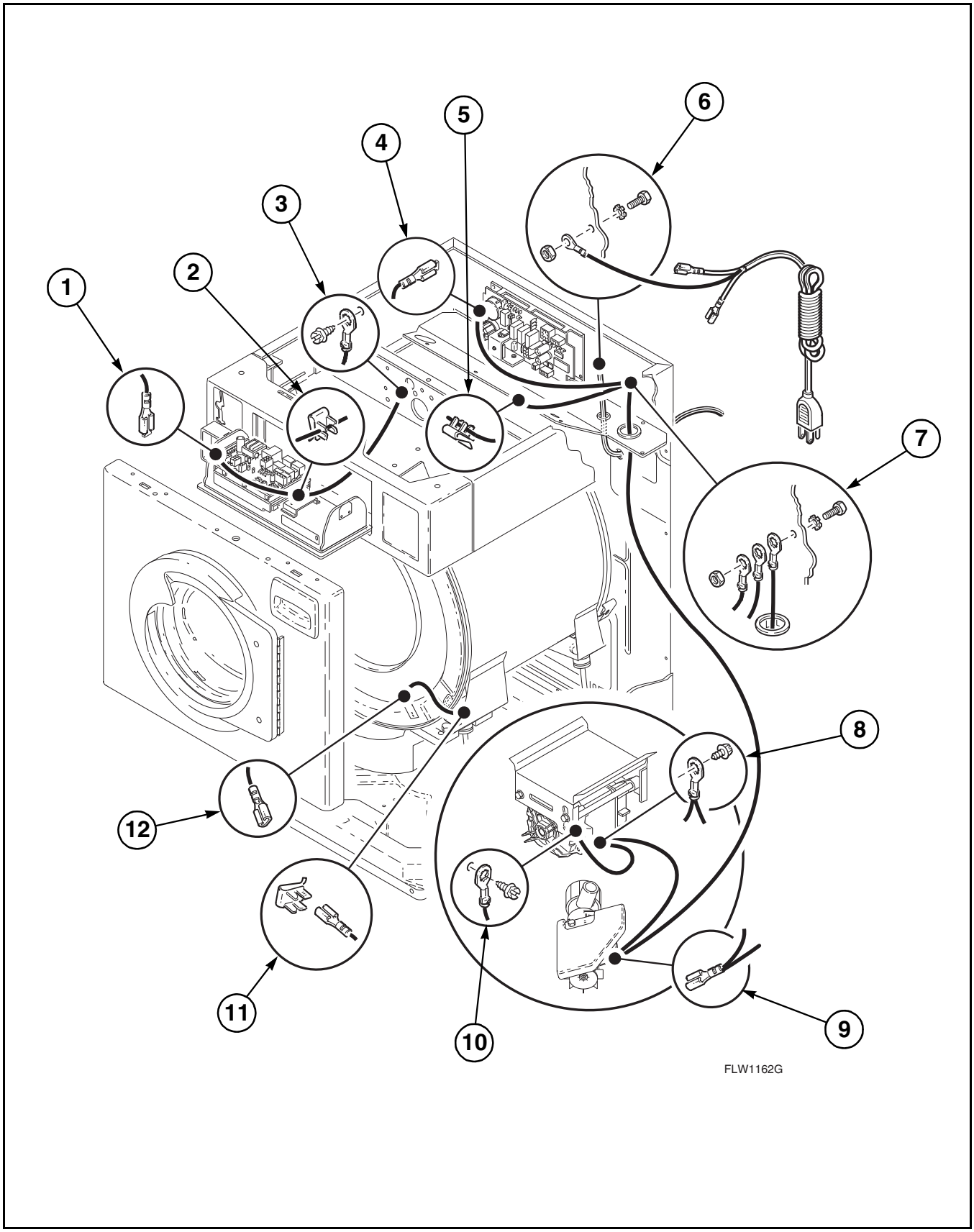

Figure 16

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Section 5
Service Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

38. CONTROL PANEL

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch washer while it is plugged in before handling control to dissipate any charge.

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. While supporting control panel, disconnect all wires and harness connectors from electronic control and indicator light.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

e. Remove ground clip holding ground wire to control panel.

NOTE: Refer to wiring diagram when reconnecting wires.

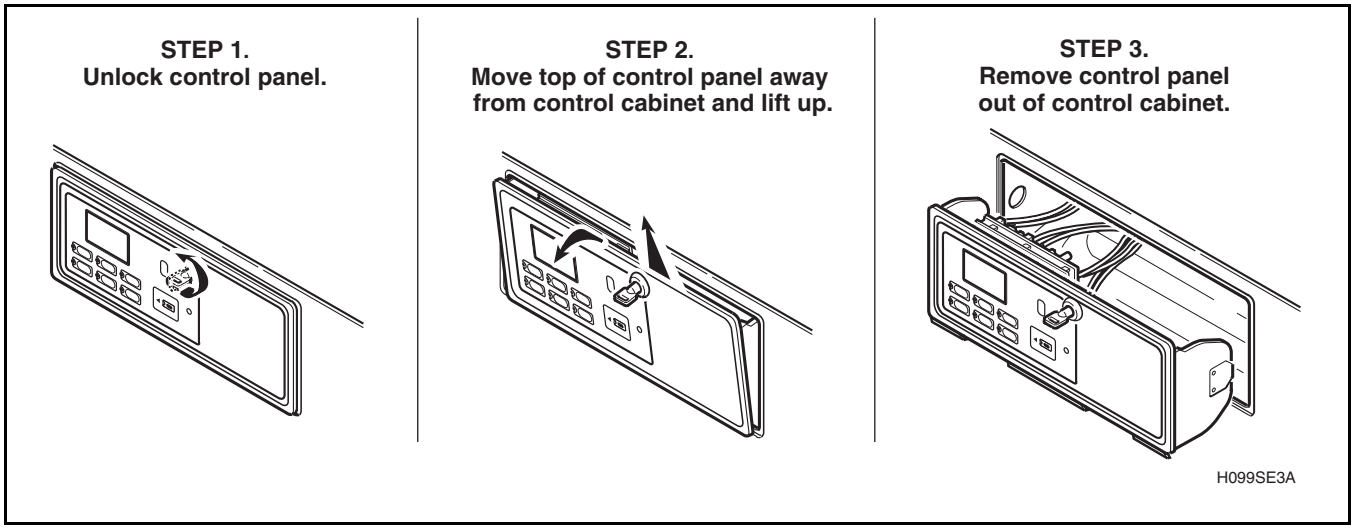
STEP 1.
Unlock control panel.
STEP 2.
Move top of control panel away from control cabinet and lift up.
STEP 3.
Remove control panel out of control cabinet.
H099SE3A

Figure 17

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

39. INDICATOR LIGHT
(Door Locked)

a. Unlock control panel. Refer to *Figure 17, Step 1*.

b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.

c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.

d. While supporting control panel, disconnect wires from indicator light.

NOTE: Refer to wiring diagram when rewiring light.

e. Squeeze locking tabs together and pull light out rear of control panel. Refer to *Figure 18*.

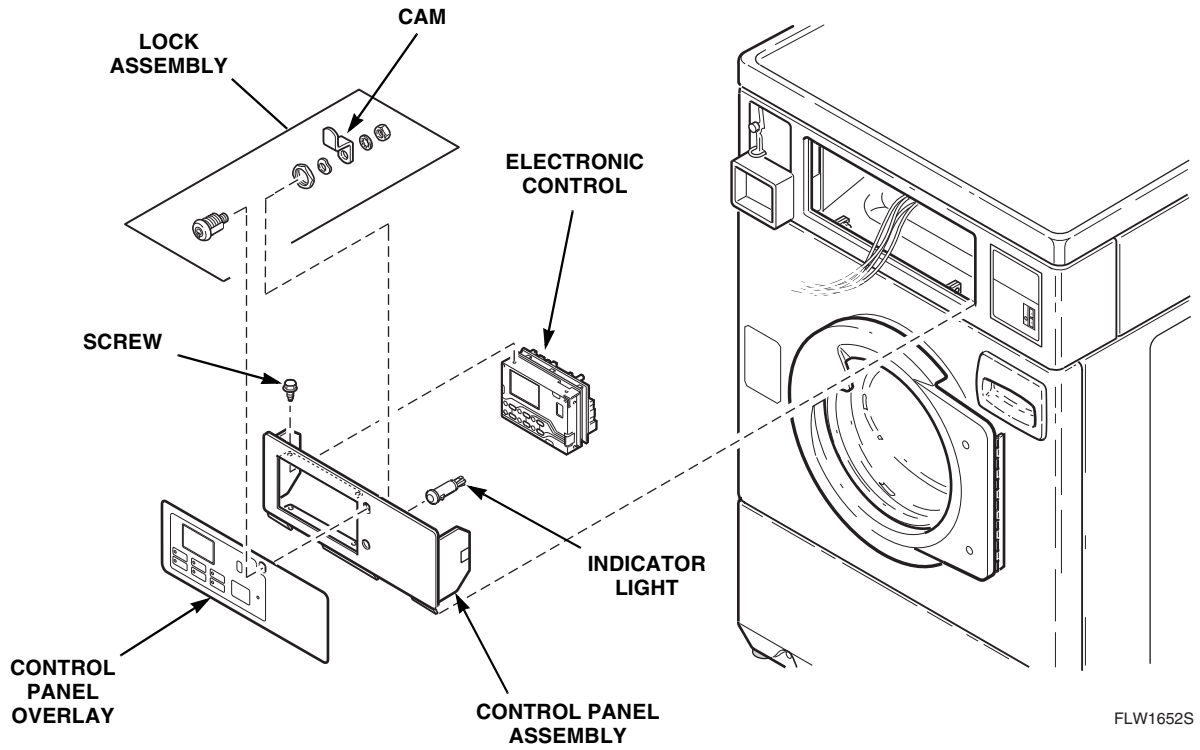

Figure 18

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

40. ELECTRONIC CONTROL

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch washer while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in a special anti-static wrapping, and protected by anti-static foam. While holding control by its metal edges, remove control from foam and wrapping.

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. While supporting control panel, press in on locking tabs and unplug harness disconnect blocks from backside of electronic control.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

e. Remove four screws holding electronic control assembly to backside of control panel. Refer to *Figure 18*.
f. Place the old control in the anti-static wrapping that the new control was supplied in.
g. While holding new control by its metal edges, place control in opening of control panel and fasten control down with four screws removed in step “e”. Refer to *Figure 18*.

NOTE: For proper control alignment, tighten the top two screws first then tighten the bottom screws. Refer to *Figure 18*.

h. Follow wiring diagram and reconnect wires to new control.

IMPORTANT: It is important to take care when handling the original control. It must be carefully placed in the anti-static wrapping and anti-static foam which was removed from new control. If control is not wrapped properly, warranty credit will not be issued.

41. CONTROL PANEL OVERLAY

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch washer while it is plugged in before handling control to dissipate any charge.

a. Removal:
   (1) Unlock control panel. Refer to *Figure 17, Step 1*.
   (2) Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
   (3) Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

(4) Support control panel, press in on locking tabs and unplug harness disconnect blocks from backside of electronic control.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

(5) Remove four screws holding electronic control assembly to backside of control panel. Refer to *Figure 18*.

(6) Remove lock assembly from control panel. Refer to *Figure 18*. Remove control panel overlay by peeling it from the control panel assembly.

NOTE: Control panel overlay has an adhesive backing.

b. Installation:

NOTE: Before removing protective backing from new overlay, check fit of overlay to control panel assembly. Refer to *Figure 18*. Use the lock hole in the control panel as the locating guide.

(1) Once panel overlay is fitted to the front of control panel frame, carefully peel protective backing from the left end of panel overlay and press into place.

(2) Remove rest of protective backing from panel overlay and press overlay into place on control panel assembly.

(3) While holding control by its metal edges, place control in opening of control panel and fasten control down with four screws. Refer to *Figure 18*.

(4) Follow wiring diagram and reconnect wires to control.

IMPORTANT: It is important to use care when handling the control.

(5) Reinstall control panel in control cabinet and lock control panel.

42. CABINET TOP

a. Unlock control panel. Refer to *Figure 17, Step 1*.

b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.

c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.

d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.

e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Remove cabinet top from washer by removing nuts and carriage bolts holding cabinet top and hinges to control cabinet. Refer to *Figure 20*.

g. Carefully lift cabinet top off washer and set out of the way to prevent damage.

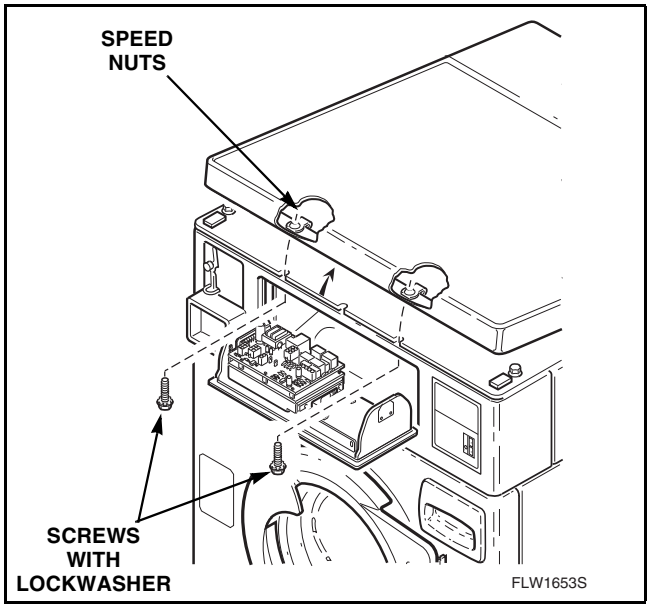

Figure 19

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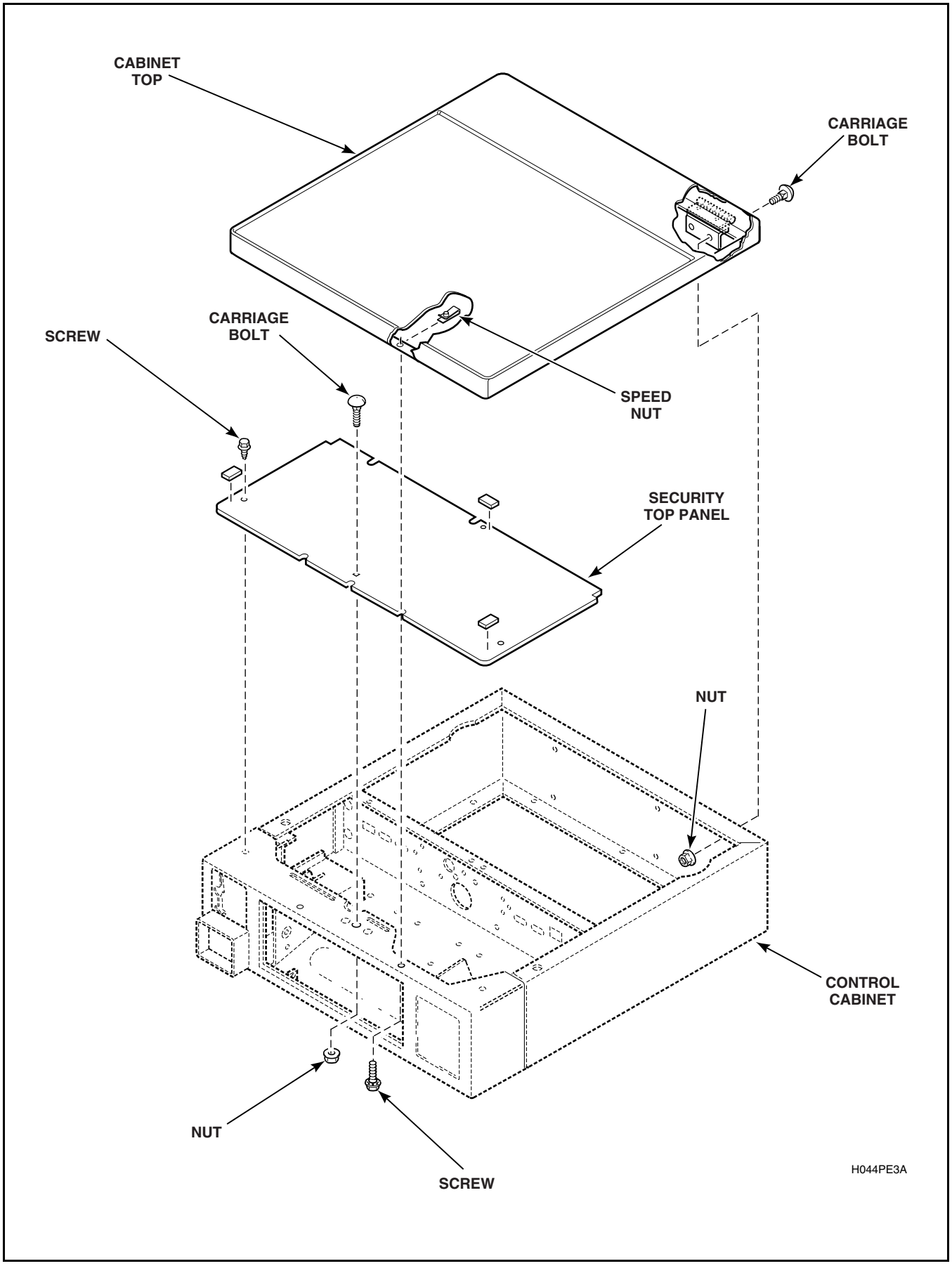

Figure 20

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

43. COIN DROP

a. Removal:

(1) Unlock control panel. Refer to *Figure 17, Step 1*.

(2) Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet front. Refer to *Figure 17, Step 2*.

(3) Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.

(4) Remove 2 screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.

(5) If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

(6) If equipped with security top panel, remove screws and carriage bolt holding panel to control cabinet front. Refer to *Figure 21*. Slide security top panel back just far enough to disengage tabs on panel from control cabinet front and remove security panel. Refer to *Figure 21*.

(7) Disconnect coin drop harness at disconnect block.

(8) Use a 3/8 inch square drive socket, with number 310P4–quarter inch Ratchet Extension Tool, to remove 2 locknuts holding coin drop to front of control cabinet.

NOTE: A 3/8 inch square drive socket, size 7/16 inch, fits over end of the 310P4 Extension Tool. A 1/4 inch ratchet fits in the other end. Refer to *Figure 22*.

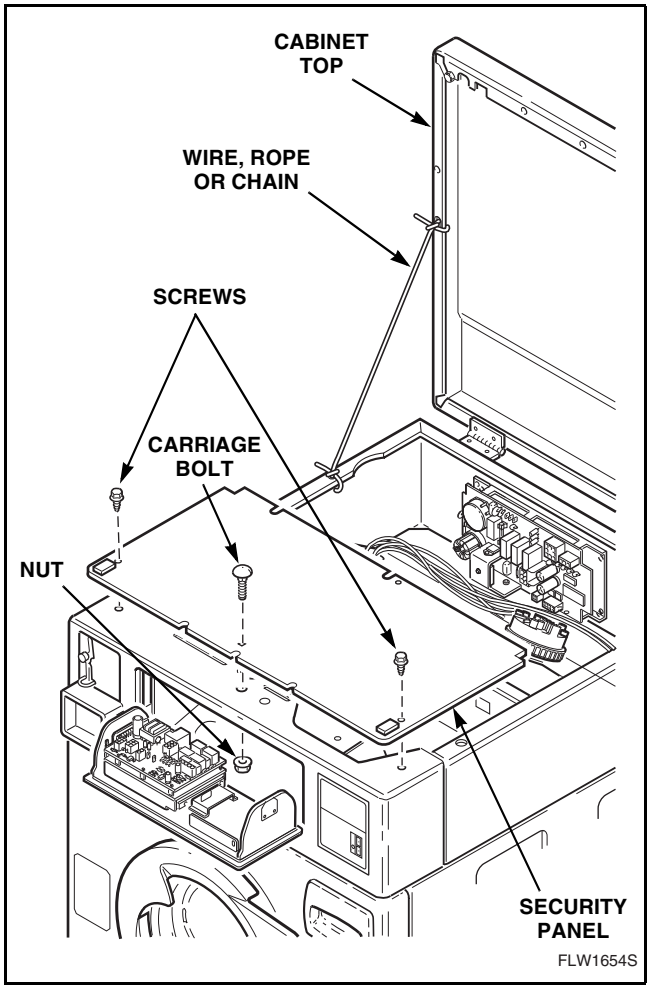

Figure 21

(9) Lift back end of coin drop and pull drop straight back until front edge of the drop's front face plate clears the 2 guide wires.

(10) Carefully slide drop straight back until drop clears inside wall of control cabinet. Carefully remove drop out through top of control cabinet.

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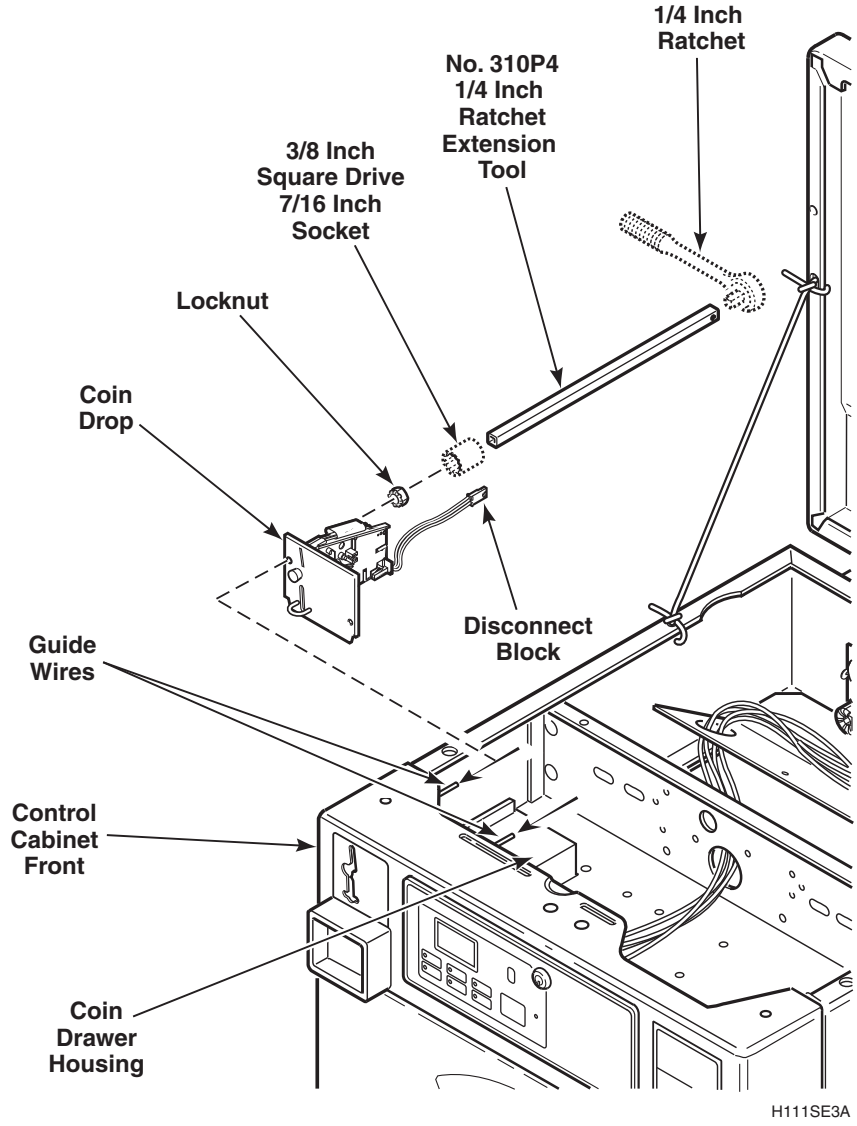

Figure 22

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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b. Installation:
(1) Lift coin drop up on coin drawer housing.
(2) Line up holes in the front face plate of coin drop with the 2 guide wires. Slide coin drop forward, making sure guide wires are through holes in front face plate of coin drop.
(3) Slide coin drop forward all the way until front face plate of coin drop is up against the control cabinet front, with the coin return stop completely through slot.
(4) Using a 3/8 inch square drive 7/16 inch socket with number 310P4 1/4 inch Ratchet extension Tool, reinstall both locknuts and tighten locknuts firmly.
(5) Reconnect coin drop wire harness.
(6) Reinstall security top panel and secure using screws and carriage bolt previously removed.
(7) Lower cabinet top into position and reinstall 2 screws (previously removed) holding cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
(8) Reinstall control panel in control cabinet and lock control panel.

44. CARD READER

a. Removal:
(1) Unlock control panel. Refer to *Figure 17, Step 1*.
(2) Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet front. Refer to *Figure 17, Step 2*.
(3) Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
(4) Remove 2 screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
(5) If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

(6) Remove screws and carriage bolt holding security top panel to control cabinet front. Refer to *Figure 21*. Slide security top panel back just far enough to disengage tabs on panel from control cabinet front and remove security panel. Refer to *Figure 21*.
(7) Disconnect card reader harness at disconnect block.
(8) Use a 3/8 inch square drive socket, with number 310P4 1/4 inch Ratchet Extension Tool, to remove screws or nuts holding card reader to control cabinet front and carefully remove card reader out through top of control cabinet. Refer to *Figure 23*.

NOTE: A 3/8 inch square drive socket, size 7/16 inch, fits over end of the 310P4 Extension Tool. A 1/4 inch ratchet fits in the other end. Refer to *Figure 23*.

b. Installation:
(1) Carefully place card reader into opening in control cabinet front.
(2) Using a 3/8 inch square drive 7/16 inch socket with number 310P4 1/4 inch Ratchet Extension Tool, secure card reader to control cabinet front with screws or nuts previously removed. Refer to *Figure 23*. Then tighten screws or nuts firmly.
(3) Reconnect card reader harness.
(4) Reinstall security top panel and secure using screws and carriage bolt previously removed.
(5) Lower cabinet top into position nd reinstall 2 screws (previously removed) holding cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
(6) Reinstall control panel in control cabinet and lock control panel.

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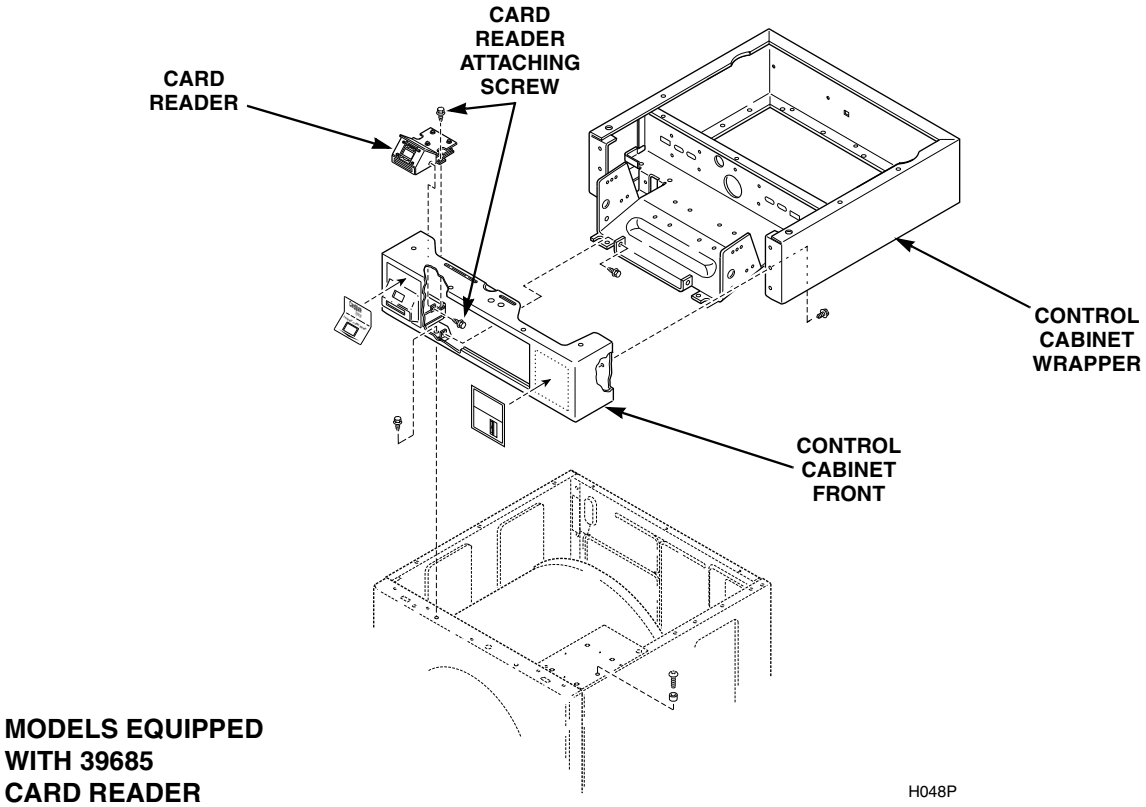
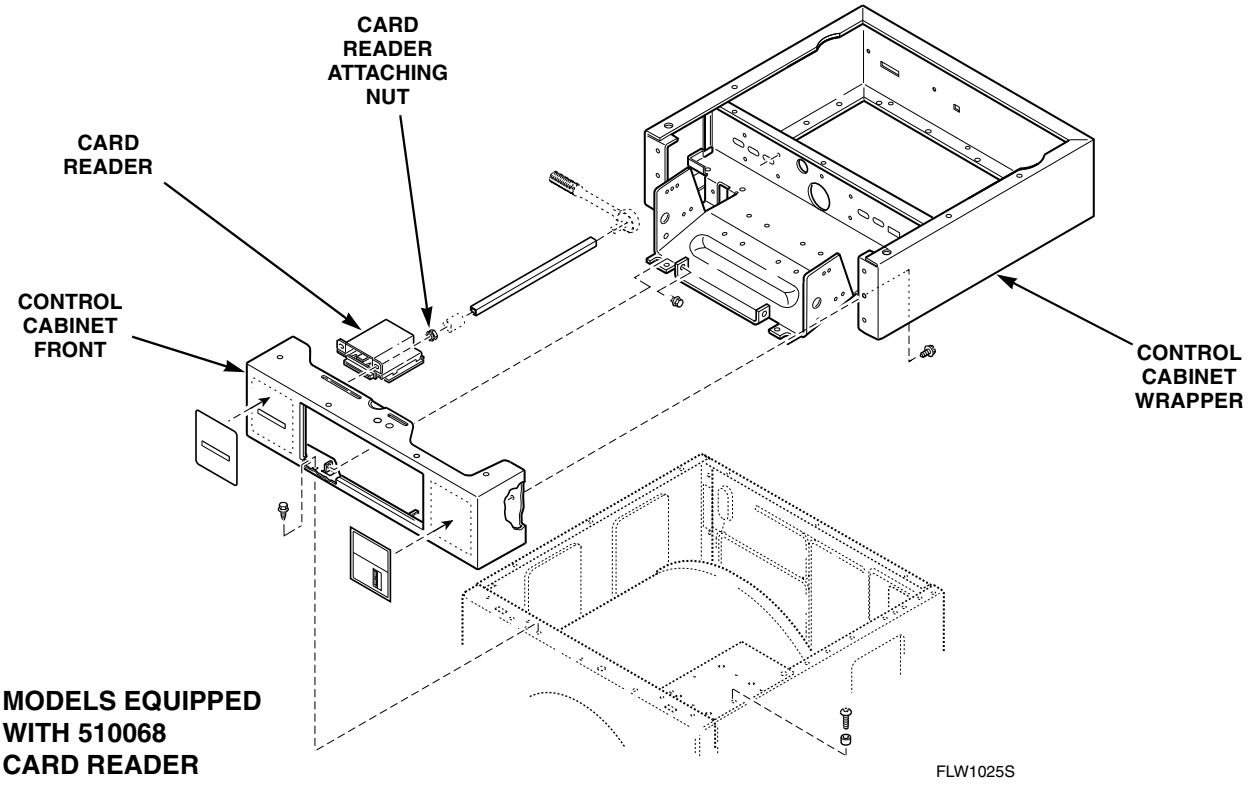


MODELS EQUIPPED WITH 39685 CARD READER



MODELS EQUIPPED WITH 510068 CARD READER

Figure 23

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

45. MOTOR CONTROL BOARD

a. Unlock control panel. Refer to *Figure 17, Step 1*.

b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.

c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.

d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.

e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges. Refer to *Figure 21*.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

IMPORTANT: Due to the sensitivity of the motor control board, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the motor control board. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of motor control board will be minimized. Always handle motor control board by its metal edges. If a wrist strap is not available, touch washer while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in a special anti-static wrapping, and protected by anti-static foam. While holding control by its metal edges, remove control from foam and wrapping.

f. Press in on locking tabs and unplug harness disconnect blocks and all wires from motor control board.

NOTE: DO NOT pull on wires, instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

g. Remove four screws holding motor control board to back of control cabinet wrapper. Refer to *Figure 24*.

h. Place old control board in the anti-static wrapping that new control board was supplied in.

i. Position the new motor control board on back of control cabinet wrapper as shown in *Figure 24*. Reinstall screws (removed in Step "g") and tighten firmly.

j. Follow the wiring diagram and reconnect wires and harness disconnect blocks to new motor control board.

IMPORTANT: It is important to take care when handling the original motor control board. It must be carefully placed in the anti-static wrapping and anti-static foam which was removing from new motor control board. If motor control board is not wrapped properly, warranty credit will not be issued.

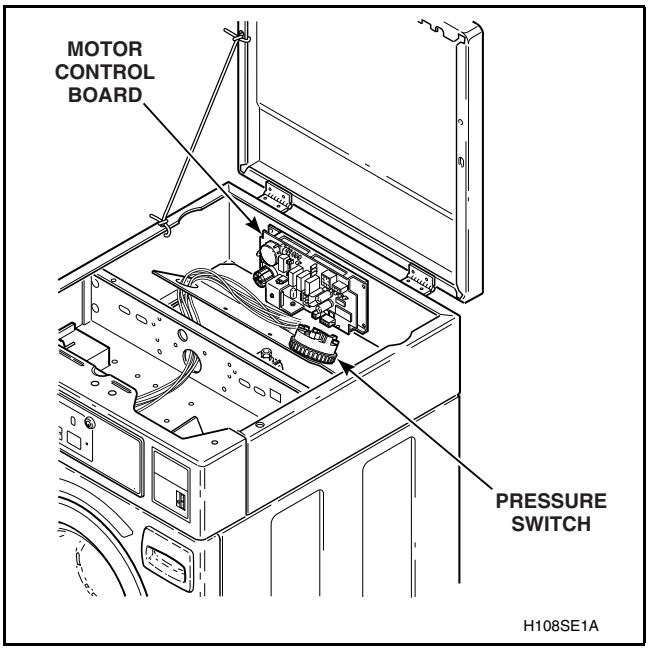

Figure 24

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

46. PRESSURE SWITCH

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Disconnect wires from pressure switch at disconnect block.
g. Disconnect pressure hose from pressure switch.

IMPORTANT: When installing pressure switch, blow air into hose before connecting hose to switch to remove any moisture that may have accumulated in hose.

h. Squeeze in locking tabs on pressure switch and push switch out toward rear of control shield. Refer to *Figure 24*.

47. CONTROL CABINET FRONT

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Remove screws holding security top panel to control cabinet front. Refer to *Figure 25*. Slide security top panel back just far enough to disengage tabs on panel from control cabinet front. Refer to *Figure 25*.
g. Remove two screws holding bottom front flange of control cabinet front to top flange of washer front panel. Refer to *Figure 25*.
h. Remove three screws (per side) holding control cabinet front to front flange of control cabinet wrapper. Refer to *Figure 25*.
i. Remove two screws holding control cabinet wrapper tabs to control cabinet front tabs. Refer to *Figure 25*.
j. Carefully pull control cabinet front straight out and away from control cabinet wrapper. Refer to *Figure 25*.

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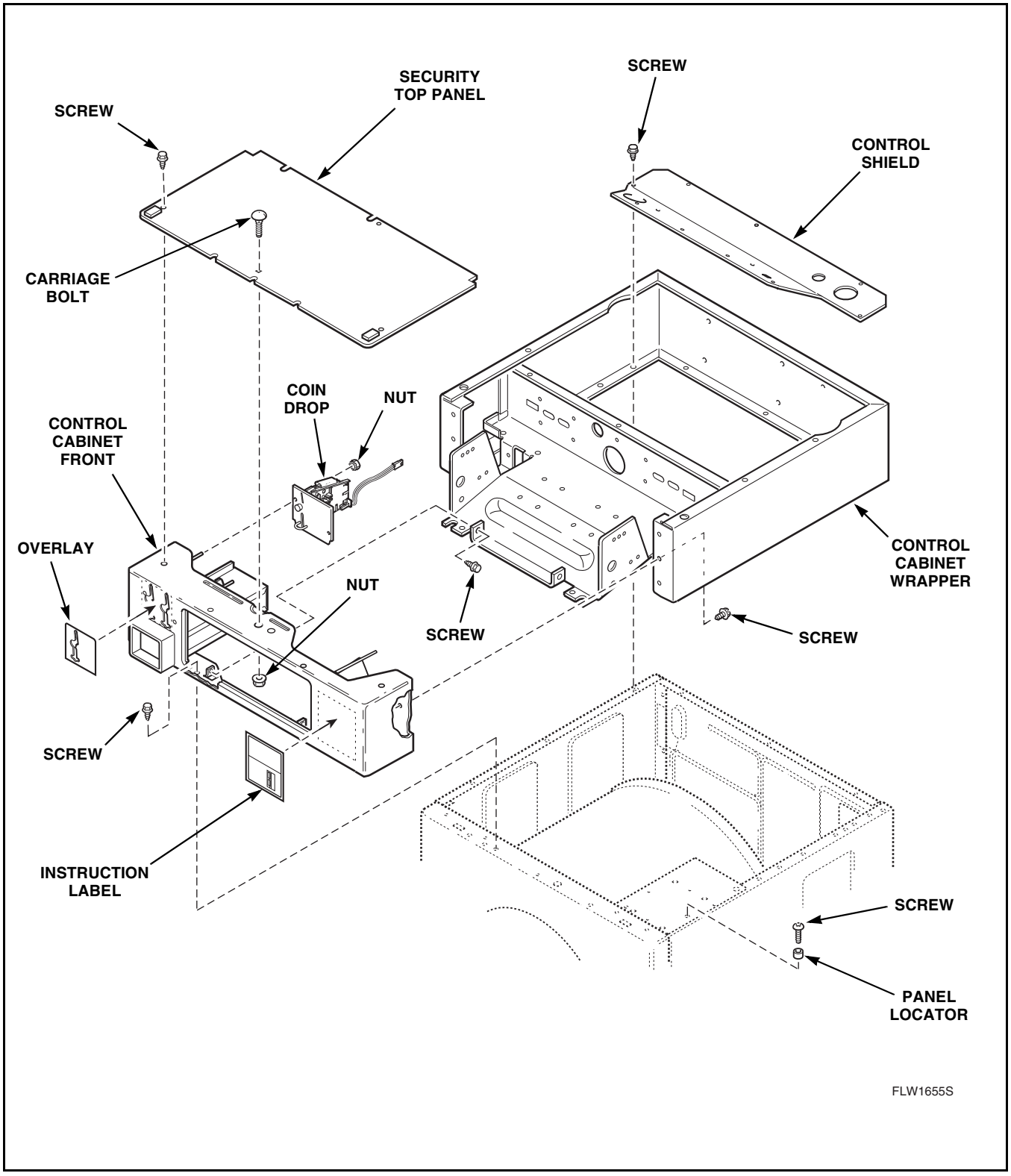

Figure 25

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

48. CONTROL CABINET WRAPPER

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Remove cabinet top from washer by removing nuts and carriage bolts holding cabinet top and hinges to control cabinet. Refer to *Figure 20*.
g. Carefully lift cabinet top off washer and set out of the way to prevent damage.
h. Remove screws holding security top panel to control cabinet front. Refer to *Figure 21*. Slide security top panel back just far enough to disengage tabs on panel from control cabinet front and remove panel.
i. Remove screws holding control shield (with controls attached) to bottom rear flange of control cabinet wrapper.
j. Remove screws holding motor control board to rear of control cabinet wrapper. Refer to *Figure 24*.
k. Remove screws holding control cabinet wrapper to top flange of side panels. Refer to *Figure 25*.
l. Carefully lift control cabinet assembly off washer and set out of the way.

49. LOWER ACCESS PANEL

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 26*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.

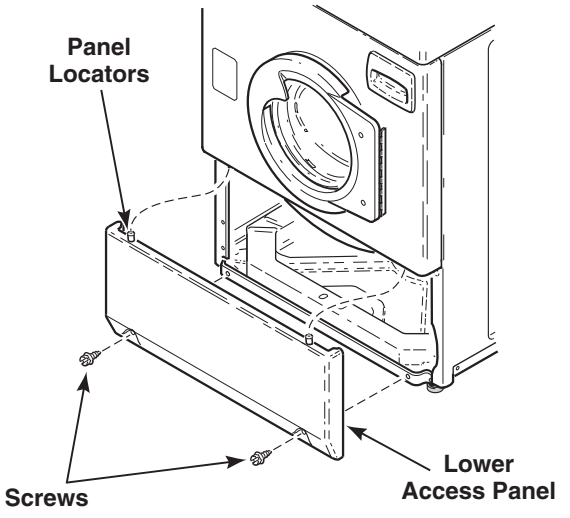

Figure 26

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

50. ELECTRIC DRAIN PUMP

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 26*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.

IMPORTANT: There will always be some water that will remain in the pump and hoses. Therefore, before removing hoses from pump, hoses must be drained to prevent water spillage.

c. Loosen hose clamps and remove three hoses connected to electric drain pump (outer tub-to-pump hose, vent hose and drain hose). Refer to *Figure 27*.

d. Disconnect wires from drain pump.

NOTE: Refer to wring diagram when rewiring drain pump.

e. Remove 3 mounting screws holding pump to base and remove pump out through front of washer. Refer to *Figure 27*.

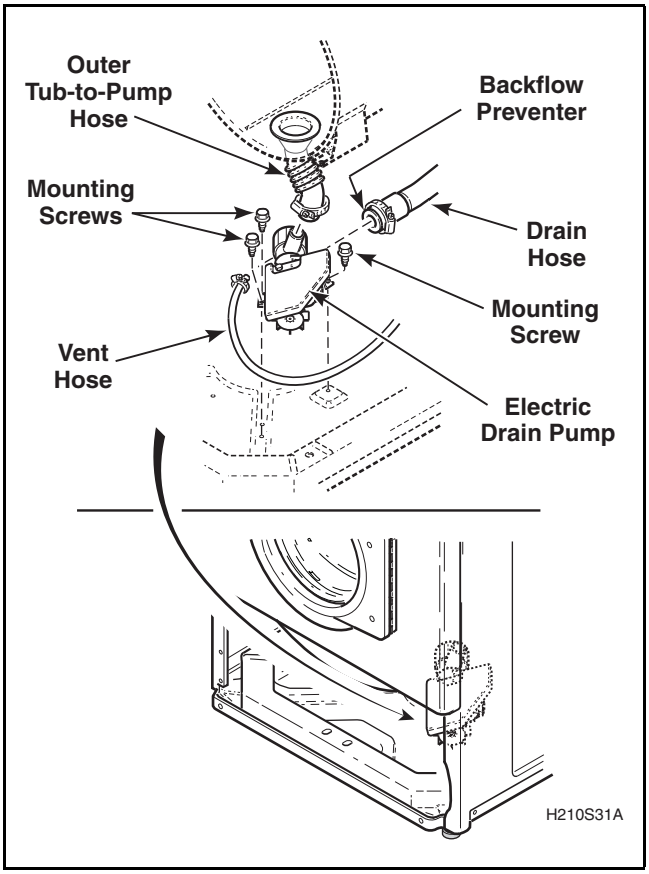

Figure 27

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

51. BELT

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Run belt off cylinder pulley while slowly turning pulley. Refer to *Figure 28*.
g. Remove belt from motor shaft.

NOTE: When installing belt, adjust belt tension per *Paragraph 65*.

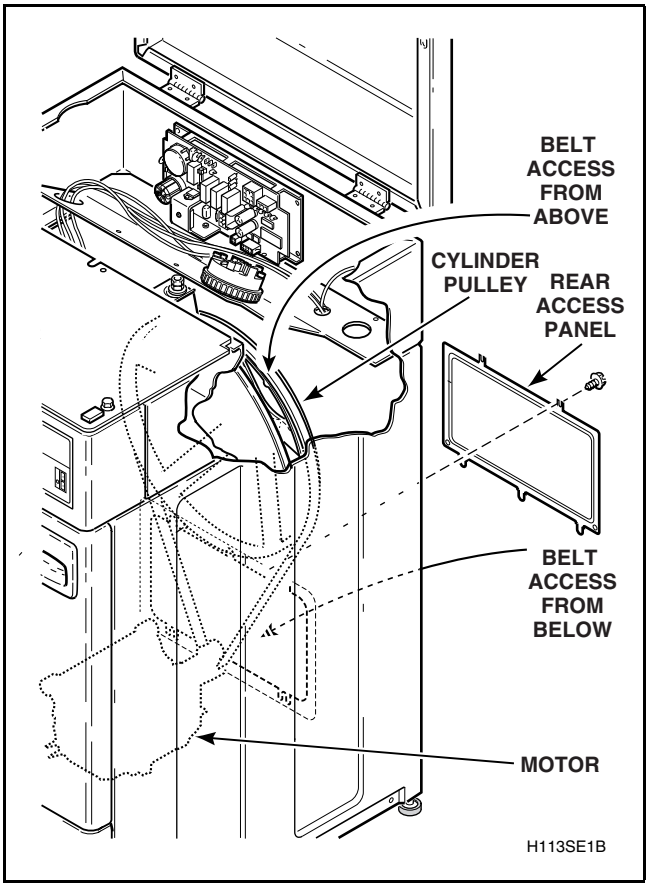

Figure 28

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

52. MIXING VALVE

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Mixing valve is located on upper back right corner of rear panel. Refer to *Figure 29*.
g. Shut off external hot and cold water supply and remove two inlet hoses.
h. Loosen hose clamp and remove mixing valve-to-dispenser hose at the mixing valve. Refer to *Figure 29*.
i. Remove wire harness disconnect blocks from mixing valve solenoid terminals. Refer to *Figure 29*.

NOTE: Refer to wiring diagram when rewiring solenoids.

j. Go to rear of washer and remove screw holding mixing valve and plate to rear panel, then remove valve and plate out through opening in rear panel. Refer to *Figure 29*.
k. Remove screws holding valve to mixing valve plate. Refer to *Figure 29*.

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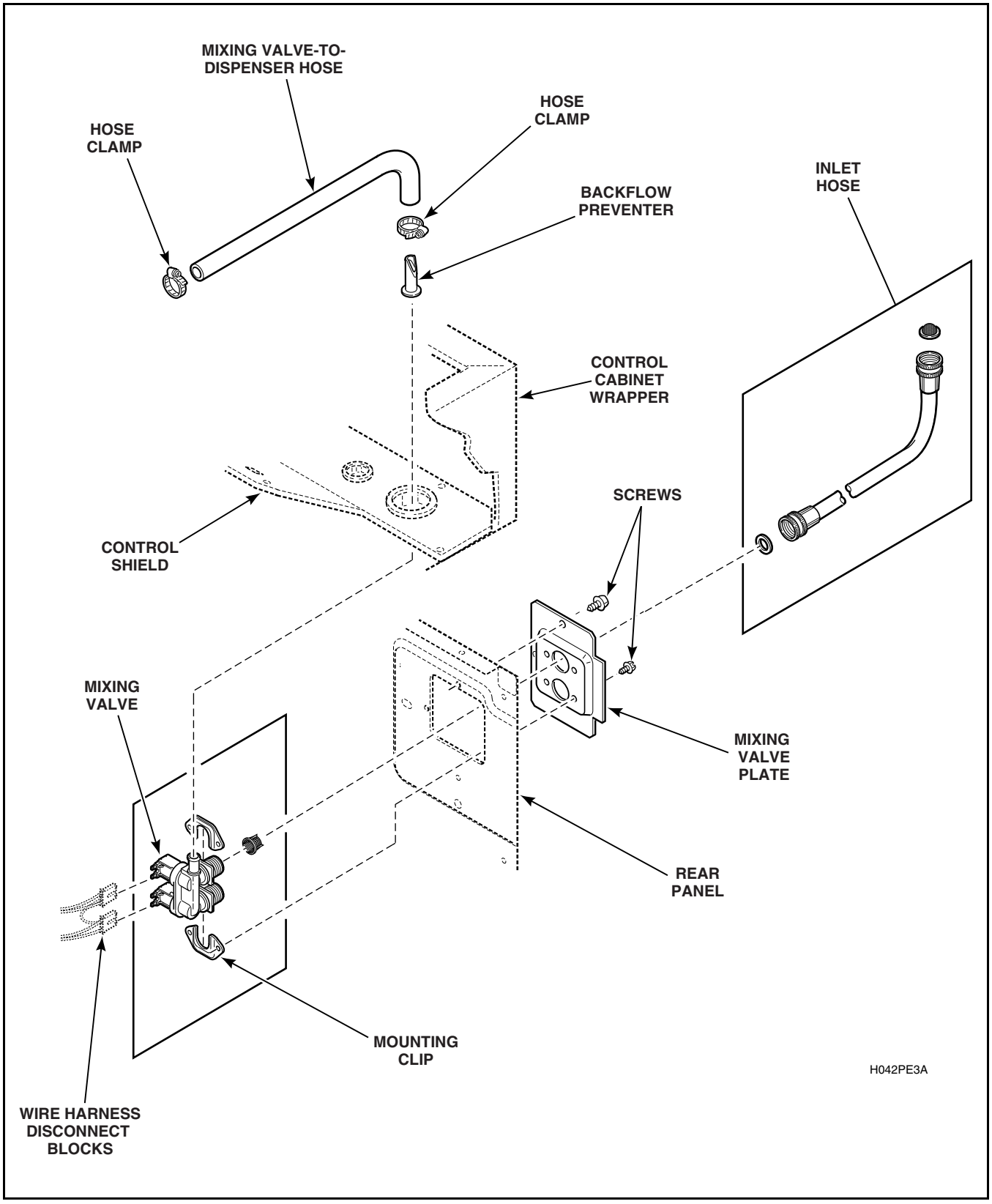

Figure 29

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

53. FRONT PANEL

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Working through control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel.
e. While supporting lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 26*.
f. Gently lower access panel to disengage panel locators from bottom edge of front panel.
g. Using the special tool, No. 318P4, remove the dispenser drawer. Refer to *Figure 30*.
h. Remove bottom two front panel attaching screws. Refer to *Figure 31*.

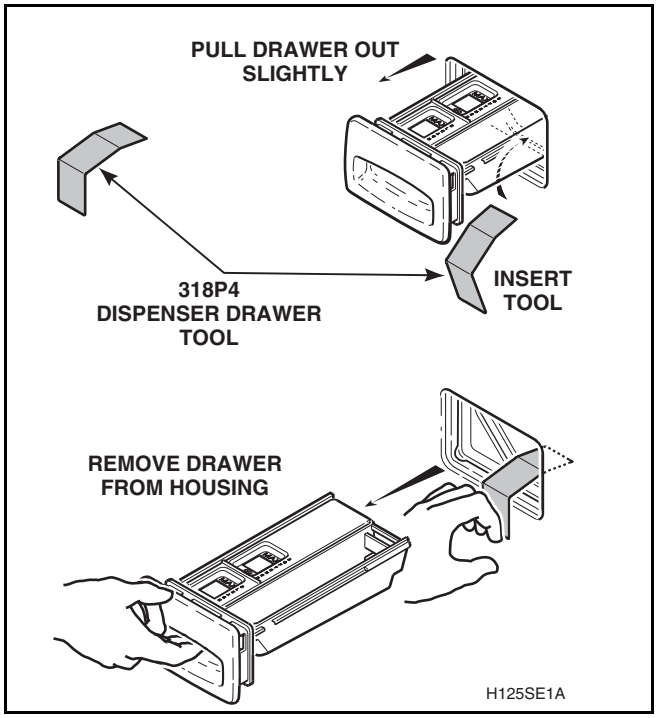

Figure 30

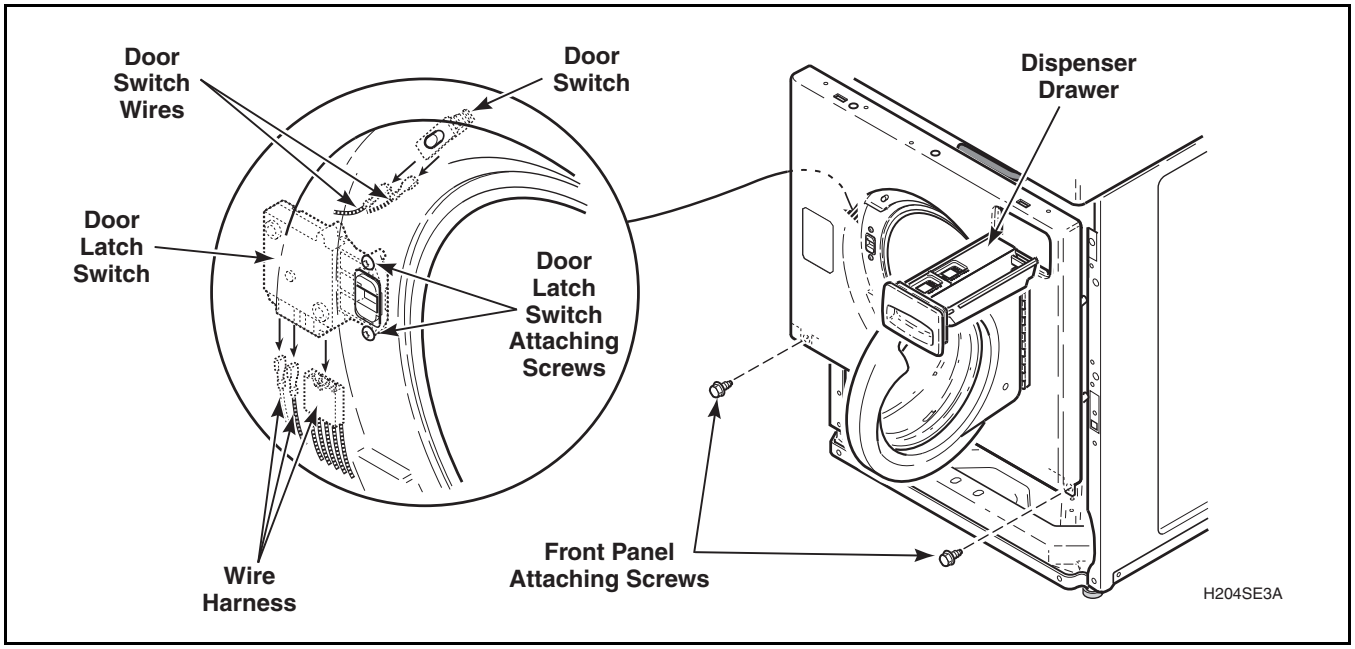

Figure 31

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

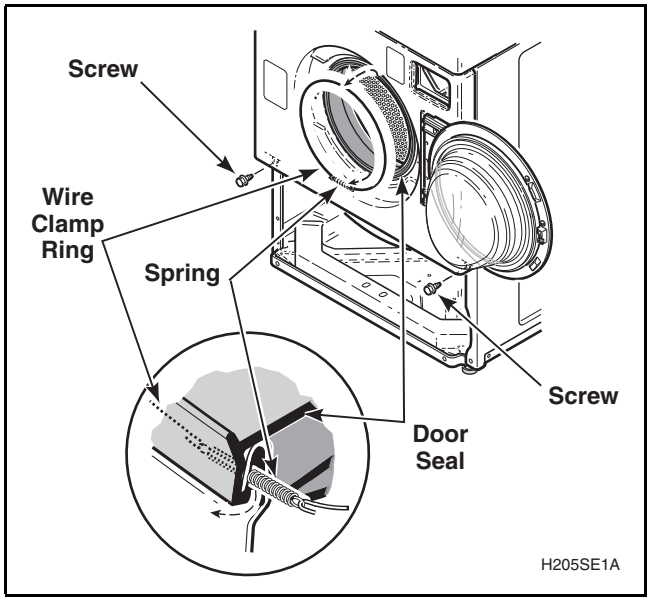

Figure 32

i. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 32*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

j. Grasp loading door seal lip. Refer to *Figure 33*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

k. Using a circular motion, pull seal up (*Figure 33*, Step 1), out (*Figure 33*, Step 2) and down (*Figure 33*, Step 3).

l. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 33*, Step 4.

NOTE: The ease of installation of the loading door seal can be improved using water or soapy solution to work seal around circumference of loading door. Be sure to orientate seal with the tab in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.

m. Remove front panel (with loading door attached) away from washer as far as wires permit.

n. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 31*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to *Figure 35*.

IMPORTANT: Before reinstalling door and front panel assembly, make sure the door catch lines up with the door latch switch. If adjustment is required, refer to *Paragraph 66*.

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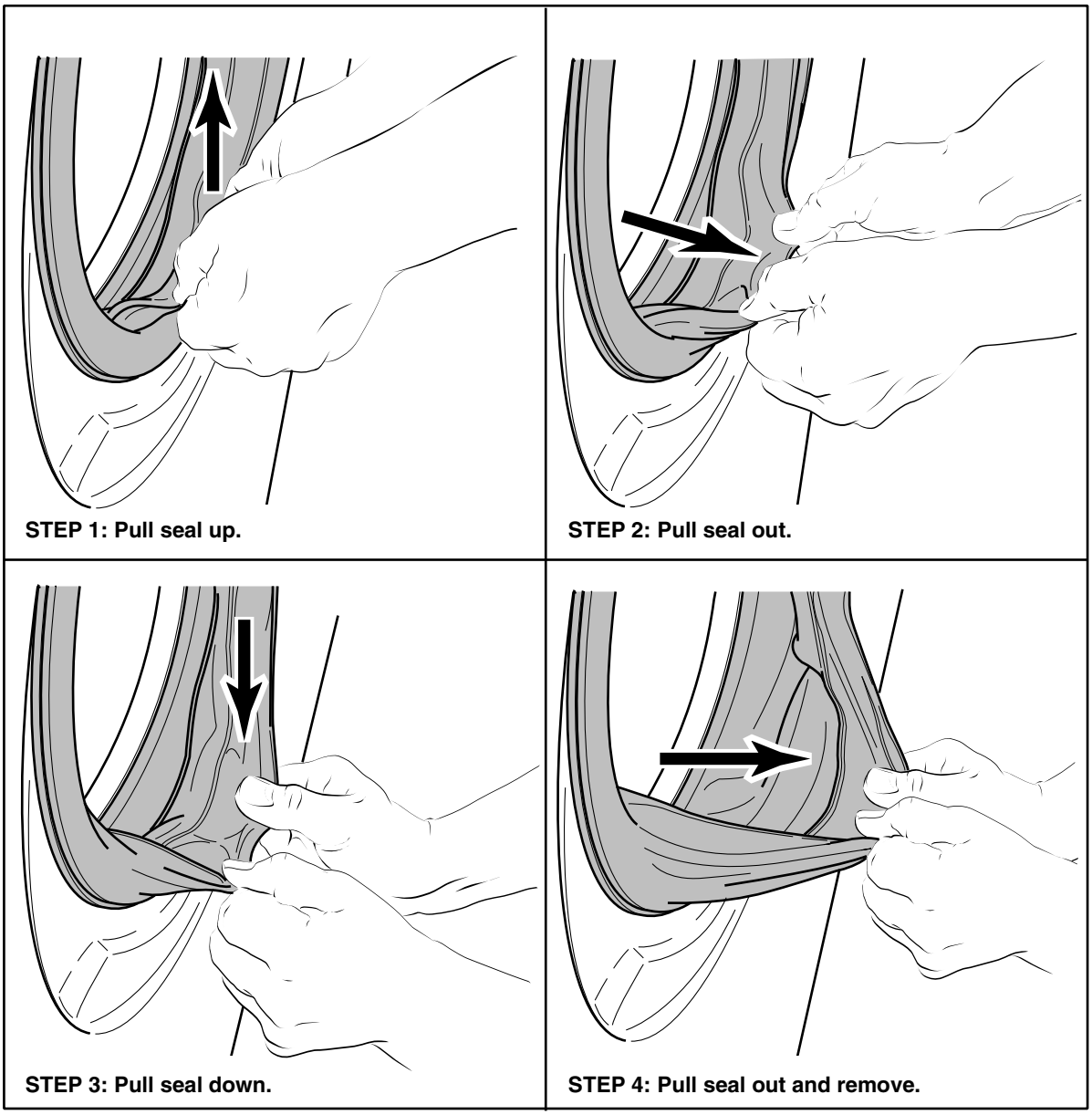

Figure 33

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

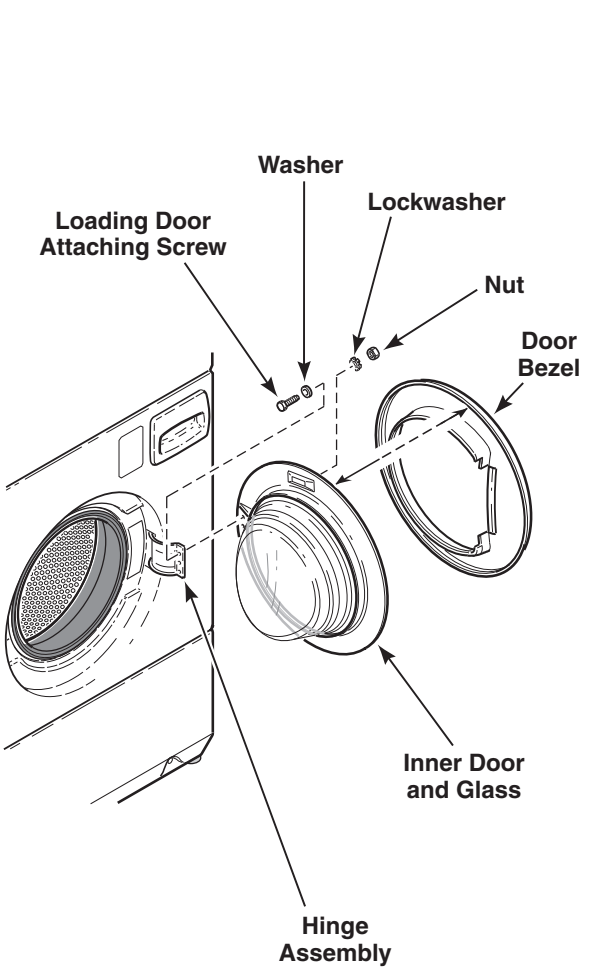
W003

54. LOADING DOOR

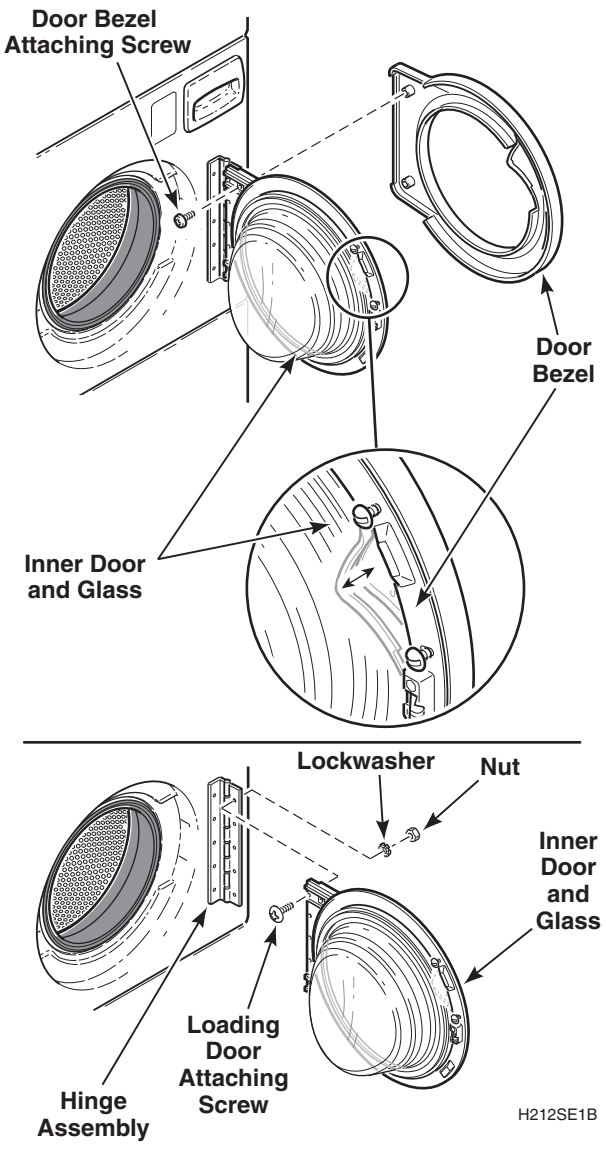
a. Open loading door.

b. Remove door bezel to gain access to nuts. Refer to *Figure 34*.

c. Remove screws, washers and nuts holding loading door to hinge assembly and remove door. Refer to *Figure 34*.



MODELS WITH THE LETTER "E" IN THE EIGHTH CHARACTER OF THE MODEL NUMBER



MODELS WITH THE LETTER "H" OR "J" IN THE EIGHTH CHARACTER OF THE MODEL NUMBER

Figure 34

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

55. DOOR SEAL AND HOSE ASSEMBLY

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Remove screws and carriage bolt holding security top panel to control cabinet front. Refer to *Figure 21*. Slide security top panel back just far enough to disengage tabs on panel from control cabinet front.
g. Reach in through control panel opening and remove two screws holding bottom front flange of control cabinet front to top flange of washer front panel. Refer to *Figure 19*.
h. Remove two screws on top right side of front panel (above dispenser drawer).
i. While supporting lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 26*.
j. Gently lower access panel to disengage panel locators from bottom edge of front panel.
k. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 30*.
l. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 32*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

m. Grasp loading door seal lip. Refer to *Figure 33*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

n. Using a circular motion, pull seal up (*Figure 33*, Step 1), out (*Figure 33*, Step 2) and down (*Figure 33*, Step 3).
o. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 33*, Step 4.
p. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 31*. Remove front panel (with loading door attached) away from washer as far as wire permit.
q. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 31*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.
r. Loosen hose clamp and remove door seal hose connection at the dispenser. Refer to *Figure 35*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 35*.

s. Loosen large clamp holding seal to front of outer tub. Slide seal off front of outer tub and remove seal.

NOTE: The ease of installation of loading door seal can be improved using water or soap solution to work seal around the circumference of loading door. Be sure to orientate seal with tab in the 12 o'clock position when installing wire clamp ring to the front panel. Be careful not to overstretch tension spring.

56. DOOR SWITCH

a. Open loading door.
b. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is located in the 6 o'clock position.

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WARNING

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

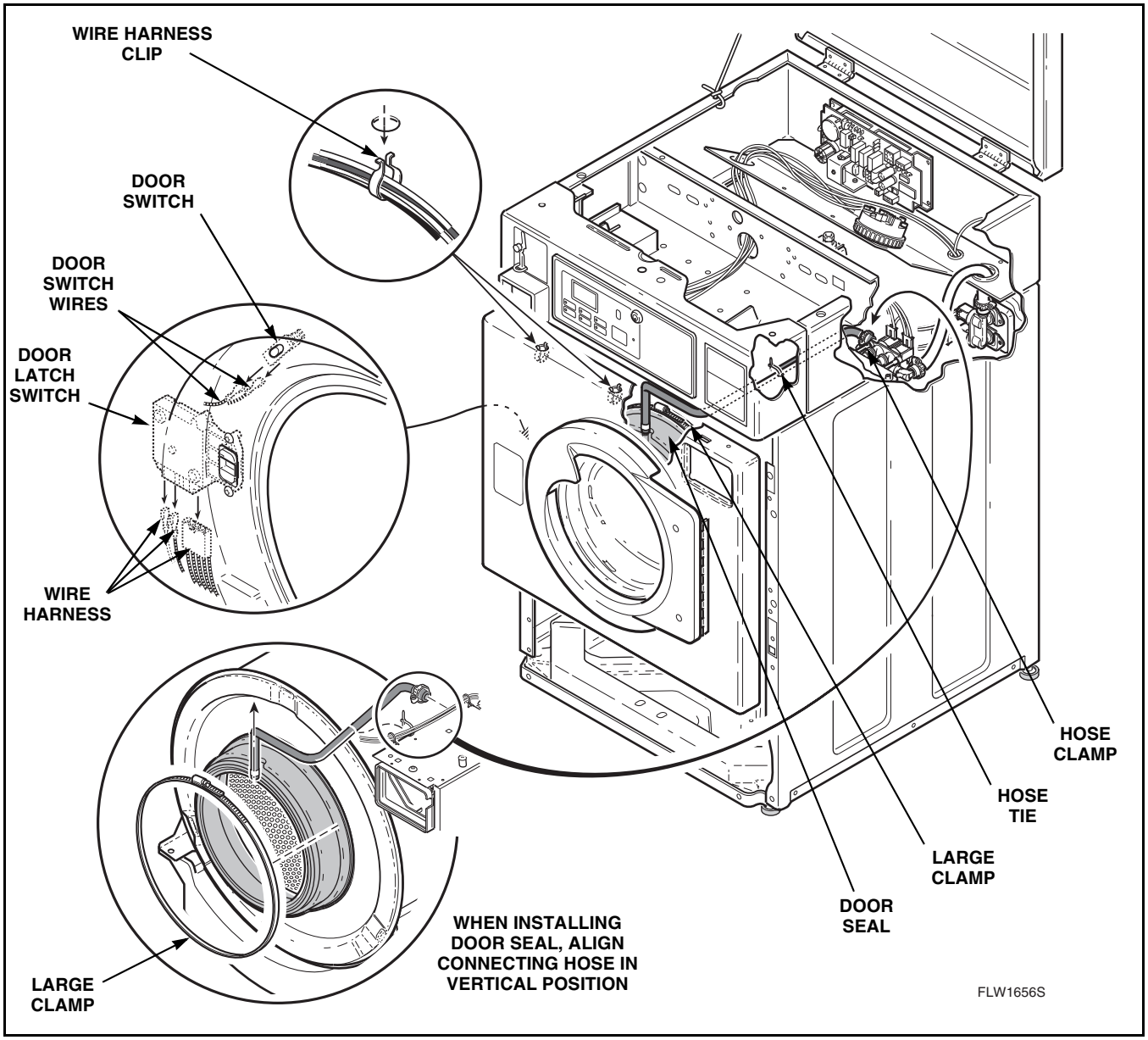

Figure 35

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 33*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

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WARNING

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W003

d. Using a circular motion, pull seal up (*Figure 33*, Step 1), out (*Figure 33*, Step 2) and down (*Figure 33*, Step 3).
e. When seal releases from lip of front panel, pull out and remove the seal from half of the door opening. Refer to *Figure 33*, Step 4.
f. Reach up between door seal and front panel. Refer to *Figure 31*. Press in on switch locking tabs and push switch out through front panel only far enough to allow removal of wires from switch terminals.

IMPORTANT: Refer to wiring diagram when rewiring switch.

57. DOOR LATCH SWITCH

a. Open loading door.
b. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 32*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 33*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 33*, Step 1), out (*Figure 33*, Step 2) and down (*Figure 33*, Step 3).
e. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 33*, Step 4.
f. While supporting door lock from behind (through door opening), remove two Phillips head screws holding door latch switch to front panel. Refer to *Figure 36*.
g. Gently pull door lock out through door opening. Remove door lock only far enough to disconnect harness connector from door lock. Refer to *Figure 36*.

NOTE: When installing new door lock, be sure to install small lip through mounting hole first and then rotate lock into position.

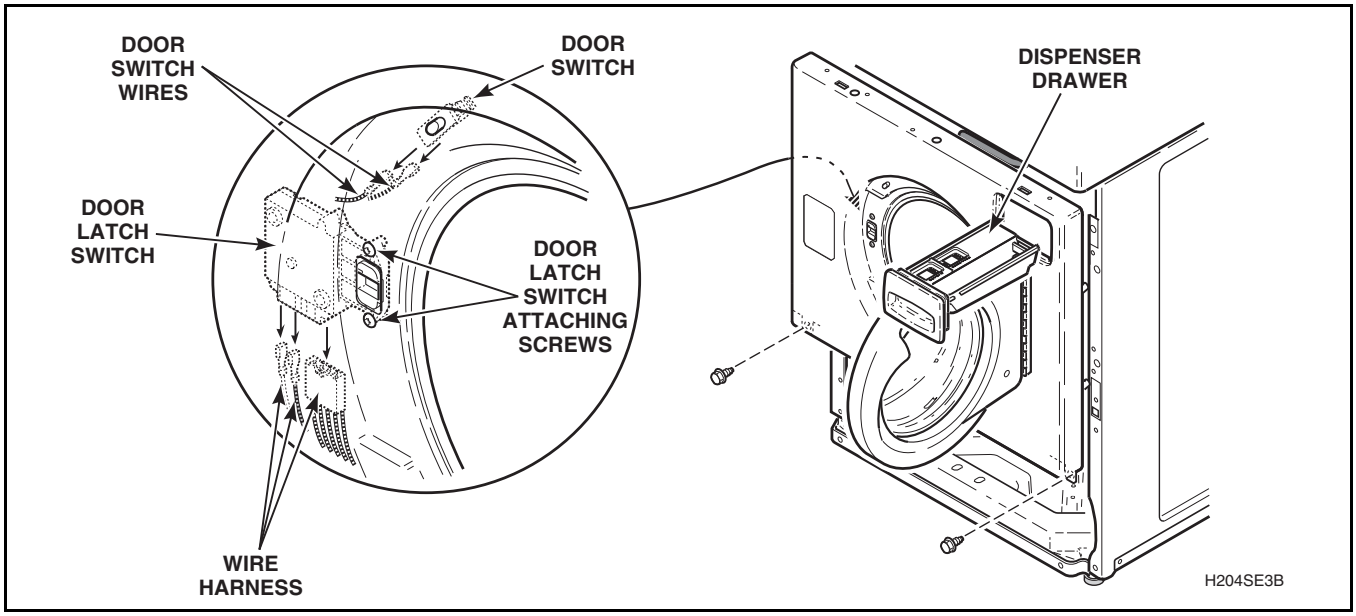

Figure 36

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

58. MOTOR

NOTE: Motor is removed out through front of washer, however, as an option, motor can be removed out through rear access panel opening.

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid hinge damage, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Run belt off pulley while slowly turning pulley.
g. Remove belt from motor shaft.
h. While supporting lower front access panel, remove two screws from bottom edge of panel. Refer to *Figure 26*.
i. Gently lower front access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 26*.

IMPORTANT: Use a magic marker and outline the washer on the front or rear adjusting screw holding motor to the stainless steel motor bracket. Refer to *Figure 37*. This will help relocate motor within the motor bracket when reinstalling motor.

j. Remove screw holding ground wire to motor frame. Refer to *Figure 37*.
k. Cut the wire tie holding small harness connector to motor, then disconnect both motor harness connectors from motor.
l. While supporting the motor, grasp the metal rod with a locking pliers and remove four bolts and washers holding motor to motor bracket, refer to *Figure 37*, and remove motor out through front of washer.

NOTE: Remove the back bolts and washers first, then remove the front bolts and washers.

m. Place new motor into washer and allow motor to rest on washer base.
n. Reconnect harness connector to new motor and reinstall screw holding ground wire to motor frame. Refer to *Figure 37*.
o. Install new wire tie holding small harness connector to motor frame. This is necessary to prevent future service calls.
p. Lift motor into position within the motor bracket and install the front pivot bolt and washer. Refer to *Figure 37*. Then install the rear pivot bolt and washer. Leave bolt snug, do not tighten.
q. Pivot motor up into motor bracket and install the front adjusting bolt and washer. Refer to *Figure 37*. Then install rear adjusting bolt and washer. Leave bolts snug.

NOTE: Locate the magic marker spot made earlier on the motor bracket. Pivot motor so front adjusting bolt and washer are in this spot and tighten both front and rear adjusting bolts. Then tighten both pivot bolts.

r. Place belt on motor pulley, then carefully run belt on cylinder pulley while slowly turning pulley.
s. Open loading door, reach into cylinder and rotate cylinder several times by hand. Recheck belt alignment.
t. Reinstall lower front access panel. Refer to *Figure 26*.
u. Lower cabinet top and install hold-down screws.
v. Reinstall control panel and lock.

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WARNING

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- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

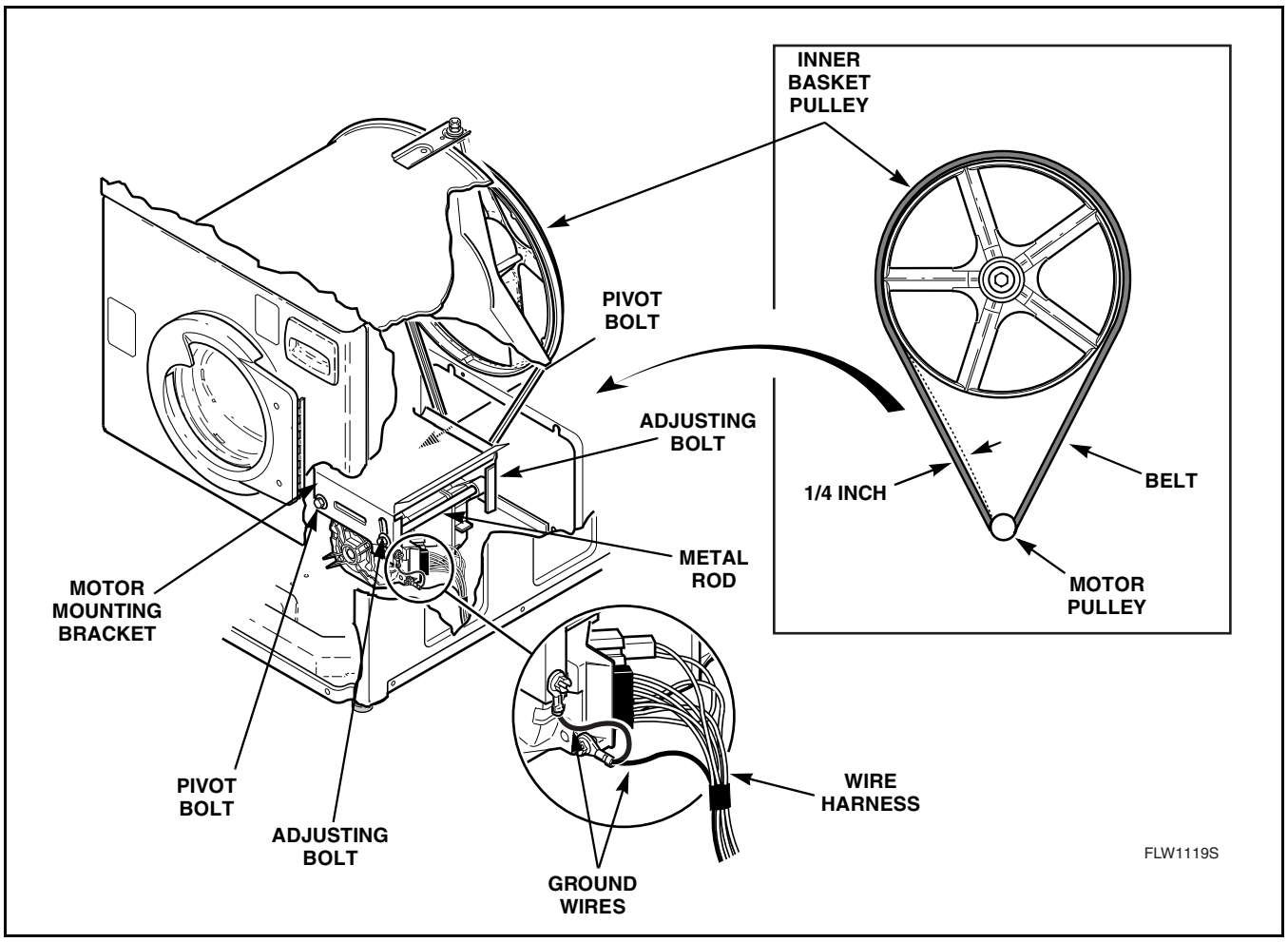

Figure 37

59. OUTER TUB FRONT PANEL

a. Unlock control panel. Refer to *Figure 17, Step 1*.

b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 17, Step 2.*

c. Remove control panel away from control cabinet. Refer to *Figure 17, Step 3.*

d. Remove 2 screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.

e. Working through control panel opening, remove 2 screws holding bottom flange of control cabinet front to top flange of front panel. Refer to *Figure 23*.

f. If area or space permits, lift cabinet top to a vertical position by hinging top on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

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WARNING

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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

g. While supporting lower front access panel, remove 2 screws from bottom edge of panel. Refer to *Figure 26*.
h. Gently lower access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 26*.
i. Remove screws holding security top panel to control cabinet. Slide security top panel just far enough to disengage tabs on panel from control cabinet front and remove panel. Refer to *Figure 21*.
j. Remove dispenser drawer using the special tool, No. 318P4. Refer to *Figure 30*.
k. Open loading door, carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located at 6 o'clock position. Refer to *Figure 32*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

l. Grasp loading door seal lip. Refer to *Figure 33*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

m. Using a circular motion, pull seal up (*Figure 33*, Step 1), out (*Figure 33*, Step 2) and down (*Figure 33*, Step 3).
n. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 33*, Step 4.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to orientate seal with the tab in the 12 o'clock position. When installing wire clamp ring to front panel, be careful not to overstretch tension spring.

o. Remove front panel (with loading door attached) away from washer as far as wires permit.
p. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 31*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose.

q. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 35*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 35*.

r. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 35*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to orientate seal with the tab in the 12 o'clock position.

s. Disconnect ground wire from outer tub front panel. Refer to *Figure 38*.
t. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 38*.
u. Remove rubber seal from outer tub front panel and discard seal.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the under side of the control cabinet. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

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WARNING

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- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

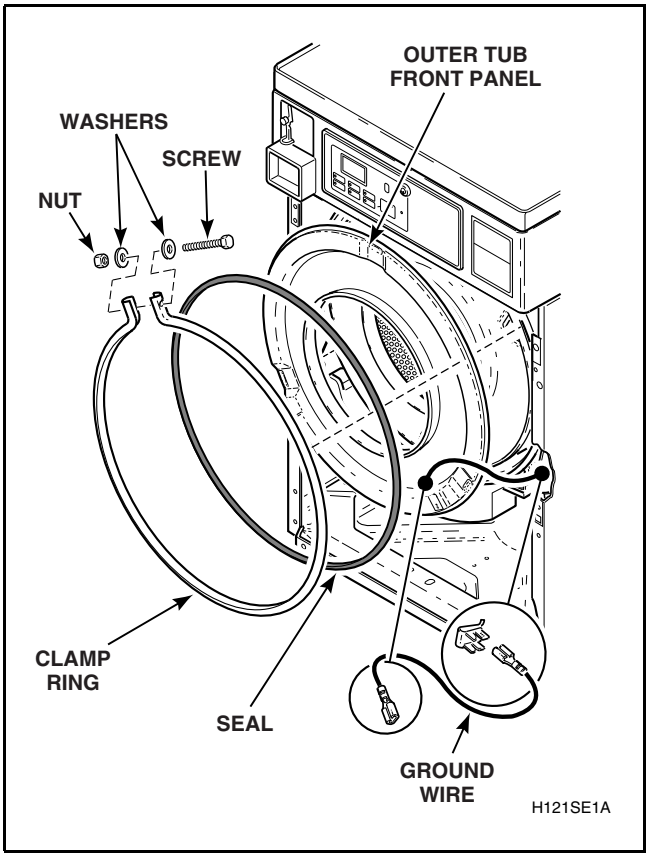

Figure 38

60. INNER BASKET PULLEY

a. Unlock control panel. Refer to *Figure 17, Step 1.*

b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 17, Step 2.*

c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3.*

d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.

e. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid hinge damage, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 21*.

f. Run belt off pulley while slowly turning pulley.

g. Remove belt from motor shaft.

h. Remove cap screw (left hand thread) lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 39*.

i. Remove pulley from shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

j. After installing belt, adjust belt tension per *Paragraph 65*.

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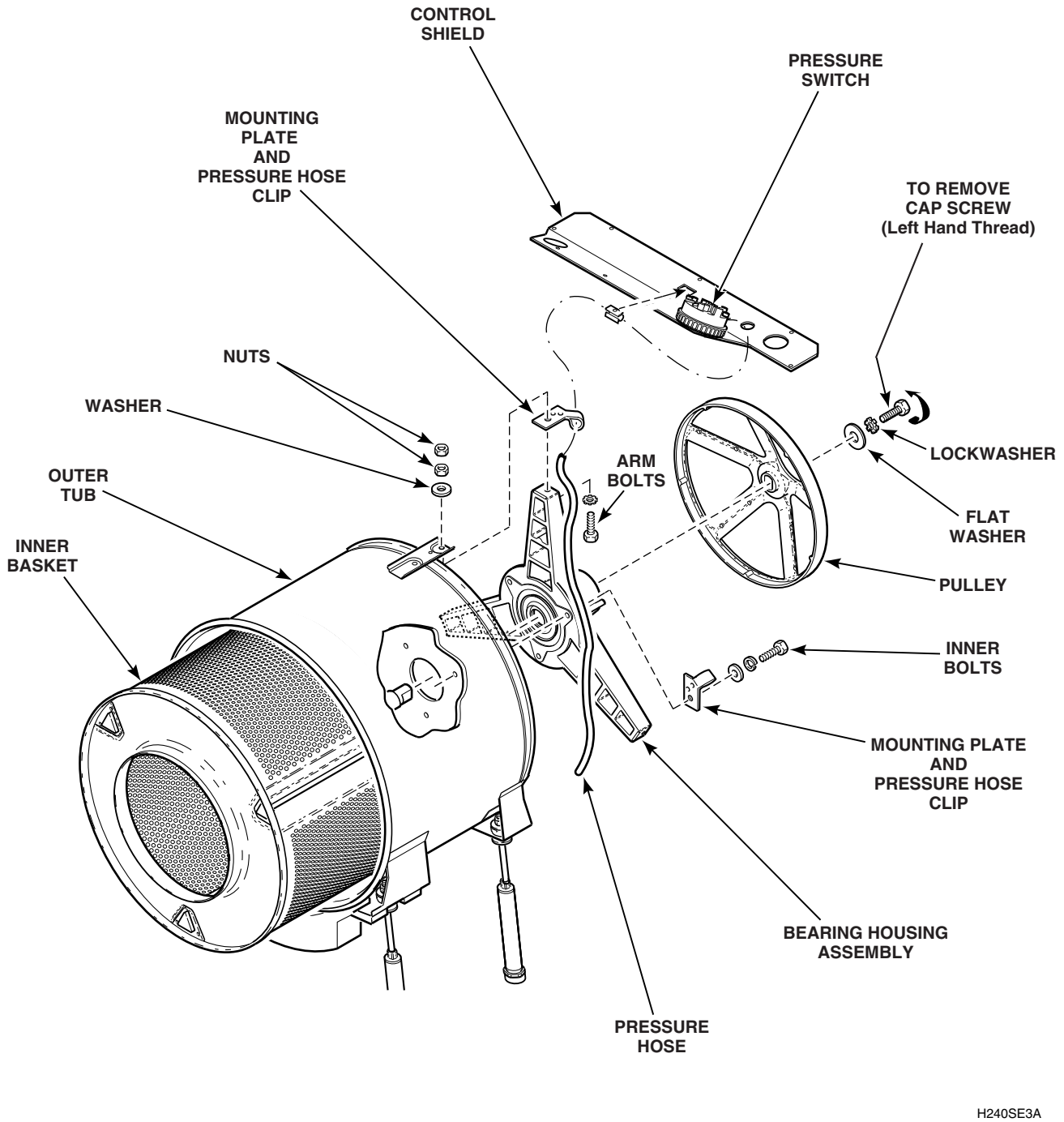

Figure 39

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

61. INNER BASKET ASSEMBLY

Inner Basket Removal

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. Remove carriage bolts and nuts holding cabinet top and hinges to rear of control cabinet wrapper. Refer to *Figure 20*.
f. Carefully lift cabinet top off washer and set alongside washer cabinet on protective padding.
g. While supporting lower front access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 26*.
h. Gently lower access panel to disengage panel locators from bottom edge of front panel.
i. Run belt off pulley while slowly turning pulley.
j. Remove belt from motor shaft.
k. Remove cap screw (left hand thread) lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 39*.
l. Remove pulley from shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

m. Remove dispenser drawer using special tool, Part No. 318P4. Refer to *Figure 30*.
n. Working through the control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel, Refer to *Figure 23*, then remove bottom two corner screws. Refer to *Figure 31*.
o. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 32*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

p. Grasp loading door seal lip. Refer to *Figure 33*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

q. Using a circular motion, pull seal up (*Figure 33*, Step 1), out (*Figure 33*, Step 2) and down (*Figure 33*, Step 3).
r. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 33*, Step 4.
s. Remove front panel (with loading door attached) away from washer as far as wires permit.
t. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 31*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: Refer to wiring diagram when rewiring door switch.

u. Loosen clamp and remove dispenser valve-to-door seal hose at dispenser. Refer to *Figure 35*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 35*.

v. Loosen clamp and remove door seal off front of outer tub. Refer to *Figure 35*.
w. Disconnect ground wire from outer tub front panel. Refer to *Figure 38*.

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WARNING

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

x. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 38*.
y. Remove rubber seal from outer tub front panel and discard.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the underside of the control cabinet. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

z. Carefully remove inner basket out through front of washer.

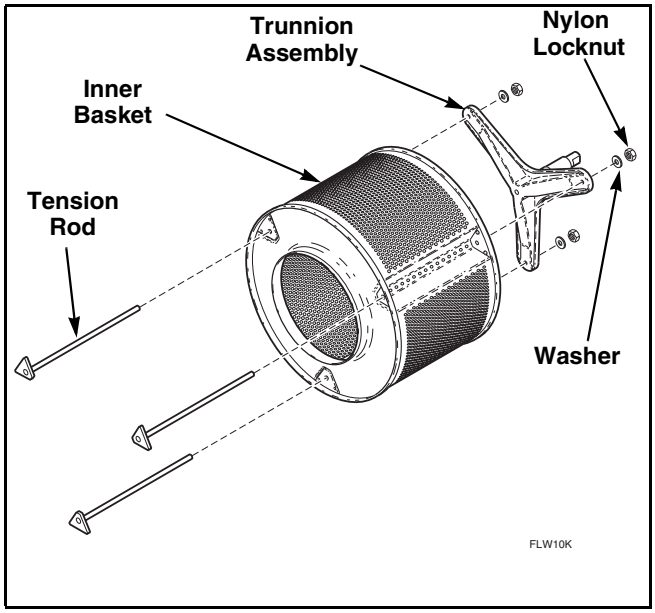

Figure 40

Installing 800749P Trunnion Kit or 800198P Inner Basket Kit –

a. Remove nuts, washers and tension rods holding trunnion to inner basket. Refer to *Figure 40*.
b. If using existing trunnion, clean out old Loctite from pulley bolt threads using a 3/8-24 UNF Left Hand Tap.
c. Dip threads of three new tension rods into lightweight oil.
d. Insert tension rods into inner basket. Refer to *Figure 40*. Position each rod so the rounded corner of triangular head faces the center of inner basket. Refer to *Figure 41*.
e. Position trunnion assembly through rods and onto inner basket.
f. Attach three washers and three new nylon locknuts onto rods. Leave the nuts loose.

IMPORTANT: Always use new nylon locknuts.

g. Carefully center trunnion on basket and torque nuts to about 50 inch-pounds.
h. Install inner basket/trunnion assembly into washer. Do not bolt down at this time.

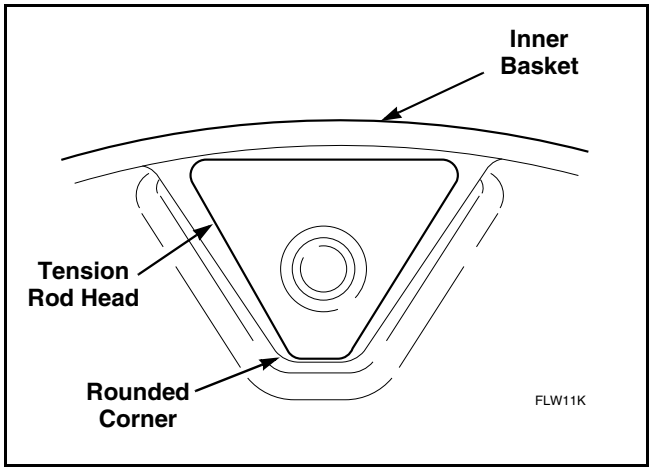

Figure 41

i. Check for concentricity/roundness of assembly. Use a dial indicator to check that concentricity at the inside edge of inner basket lip is a maximum of .05 inch TIR (Total Indicator Runout). Refer to *Figure 42*. If concentricity is not within .05 inch, remove assembly from washer and adjust location of trunnion. Repeat until concentricity is within .05 inch.

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WARNING

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- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

j. Remove inner basket/trunnion assembly from washer and evenly torque three nuts to 200 ± 10 inch-pounds.
k. Recheck that concentricity is still within .05 inch.

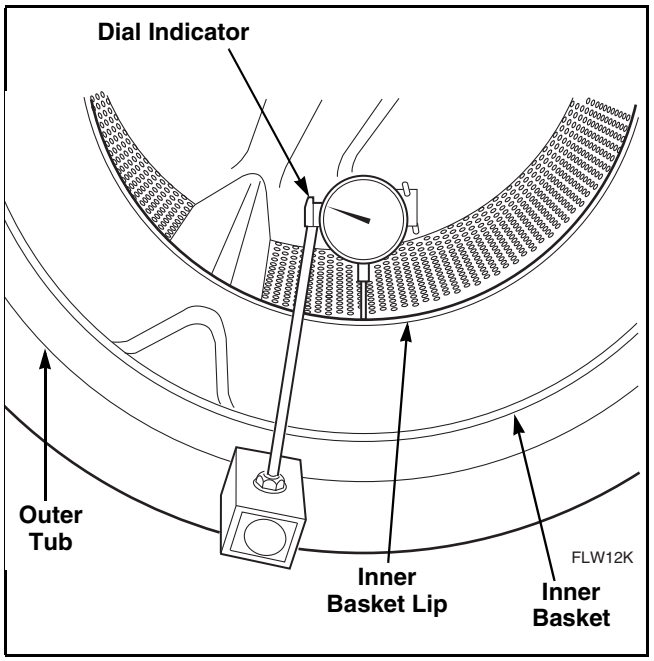

Figure 42

Inner Basket Installation –

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 43*.
b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. Refer to *Figure 43*. Make sure seal lips also are packed with grease. Refer to *Figure 43*.

IMPORTANT: When installing inner basket, the following steps must be taken to ensure that the seal is properly orientated:

c. Install inner basket assembly by pushing all the way into outer tub.
d. Install pulley, flat washer, lockwasher and left hand cap screw. Refer to *Figure 30*.

IMPORTANT: When installing pulley, always use a new cap screw (included in kit) to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

e. Unscrew left hand thread screw half way.
f. Install pulley bolt tightening fixture between the flat washer and the pulley. Refer to *Figure 44*.
g. Tighten left hand thread screw until washer is against pulley bolt tightening fixture.
h. Loosen screw about one half turn to free fixture.
i. Remove pulley bolt tightening fixture.
j. From front of washer, pull inner basket forward as far as possible. Flat washer should be against pulley.
k. Push inner basket back into outer tub as far as possible.
l. Tighten left hand thread screw. Be careful not to push the trunnion shaft forward while tightening the screw.

NOTE: Torque new left hand thread screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

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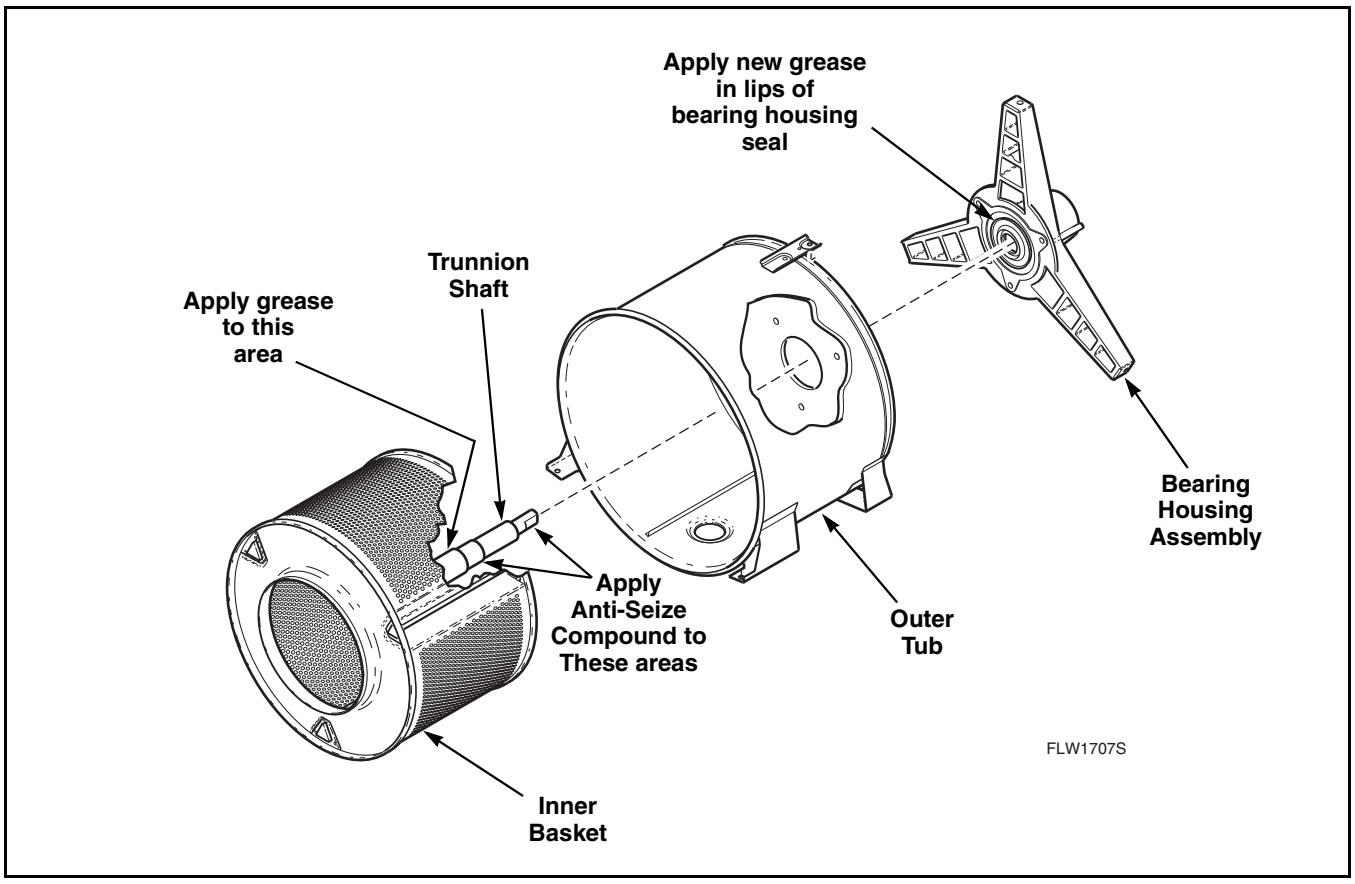

Figure 43

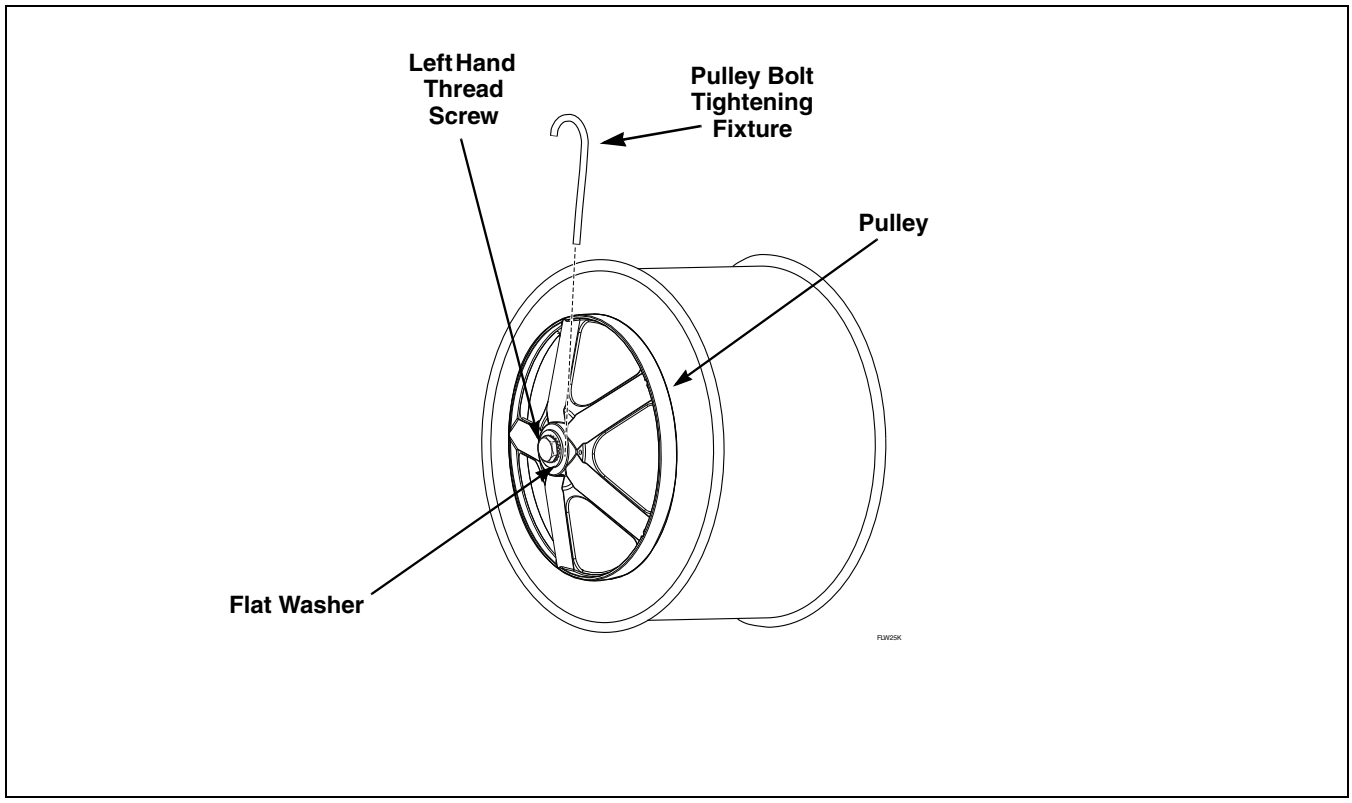

Figure 44

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

62. BEARING HOUSING

Bearing Housing Removal

a. Unlock control panel. Refer to *Figure 17, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 17, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 17, Step 3*.
d. Remove two screws holding front of cabinet top to top front edge of control cabinet front. Refer to *Figure 19*.
e. Remove carriage bolts and nuts holding cabinet top and hinges to rear of control cabinet wrapper. Refer to *Figure 20*.
f. Carefully lift cabinet top off washer and set alongside washer cabinet on protective padding.
g. While supporting lower front access panel, remove two screws from bottom edge of panel. Refer to *Figure 26*.
h. Gently lower front access panel to disengage panel locators from bottom edge of front panel.
i. Run belt off pulley while slowly turning pulley.
j. Remove belt from motor shaft.
k. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 39*.
l. Remove pulley from shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

m. Remove dispenser drawer using special tool, Part No. 318P4. Refer to *Figure 30*.
n. Working through the control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel, then remove bottom two corner screws. Refer to *Figure 25*.
o. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located in the 6 o'clock position.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

p. Grasp loading door seal lip. Refer to *Figure 33*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

q. Using a circular motion, pull seal up (*Figure 33*, Step 1), out (*Figure 33*, Step 2) and down (*Figure 33*, Step 3).
r. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 33*, Step 4.
s. Remove front panel (with loading door attached) away from washer as far as wires permit. Refer to *Figure 35*.
t. Unplug door lock harness connectors and the wire harness clips along top flange of front panel. Refer to *Figure 35*. Disconnect wires from door switch and remove front panel with loading door attached.

NOTE: Refer to wiring diagram when rewiring door switch.

u. Loosen clamp and remove door seal hose connection at dispenser. Refer to *Figure 35*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 35*.

v. Loosen large clamp and remove door seal off front of outer tub. Refer to *Figure 35*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to orientate seal with the tab in the 12 o'clock position.

w. Disconnect ground wire from outer tub front panel. Refer to *Figure 38*.
x. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 38*.
y. Remove rubber seal from outer tub front panel and discard.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside for best results.

NOTE: Install clamp screw with threads and nut facing downward. Refer to *Figure 38*. Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure no interference is encountered with side panel or the underside of the control cabinet. Tighten screw and nut until a spacing of one inch is achieved at the clamp ring opening. Tap clamp ring all around while tightening the screw and nut.

z. Carefully remove inner basket out through front of washer.

NOTE: When installing inner basket, apply No. 27604P Anti-Seize Compound to the area of inner basket shaft that will be contacting the front and rear bearings.

aa. Remove three screws holding bearing housing arms to outer tub.

IMPORTANT: Prior to disassembly, note the position of the pressure hose, hose clips and mounting plate so parts can be reinstalled in the same position. Refer to *Figure 39*.

ab. While supporting bearing housing, remove three inner screws holding bearing housing to rear of outer tub. Refer to *Figure 39*.

Bearing Housing Installation –

NOTE: When installing the bearing housing, be sure to route the pressure hose under the right arm and attach hose and pressure hose clip to mounting plate. Refer to *Figure 30*. Then route pressure hose up to the hose mounting plate on the top arm. Refer to *Figure 30*. Make sure there is no slack between these two points. All excess pressure hose slack must be collected between the top hose mounting plate on the beaing housing arm and the pressure hose clip.

IMPORTANT: The three arm bolts should always be tightened first and torqued to 275 inch pounds (31.46 Nm). Then tighten the three inner bolts and torque to 150 inch pounds (17.16 Nm).

NOTE: If a bearing failure should occur, a new bearing housing assembly should always be used. The bearings and seal are not serviceable parts. Make sure the new bearing housing seal has lubrication in all grooves before installation. If not, lubricate seal.

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 43*.
b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. *Figure 43*. Make sure seal lips also are packed with grease. Refer to *Figure 43*.

IMPORTANT: When installing inner basket, the following steps must be taken to ensure that the seal is properly orientated:

c. Install inner basket assembly by pushing all the way into outer tub.
d. Install pulley, flat washer, lockwasher and left hand thread screw. Refer to *Figure 30*.

IMPORTANT: When installing pulley, always use a new cap screw (included in kit) to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

e. Unscrew left hand thread screw half way.

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f. Install pulley bolt tightening fixture between the flat washer and the pulley. Refer to *Figure 44*.
g. Tighten left hand thread screw until washer is against pulley bolt tightening fixture.
h. Loosen screw about one half turn to free fixture.
i. Remove pulley bolt tightening fixture.
j. From front of washer, pull inner basket forward as far as possible. Flat washer should be against pulley.
k. Push inner basket back into outer tub as far as possible.
l. Tighten left hand thread screw. Be careful not to push the trunnion shaft forward while tightening the screw.

NOTE: Torque new left hand thread screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

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Section 6
Adjustments

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

63. CABINET LEVELING LEGS

a. Place washer in position on a clean, firm and reasonably level floor. Installing the washer on any type of carpeting is not recommended.

b. Loosen locknuts and adjust the leveling legs until the washer does not rock. Refer to *Figure 45*.

NOTE: Level must rest on raised portion of top panel. Refer to *Figure 45*.

c. Tighten the locknuts securely against the washer base. If the locknuts are not tight, washer will move out of position during operation.

CAUTION

DO NOT slide washer across floor if the leveling legs have been extended, as legs and base could become damaged.

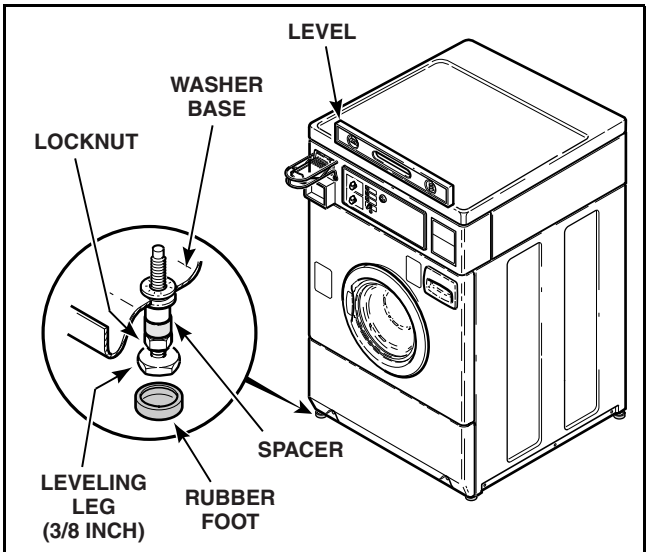
W248

CAUTION

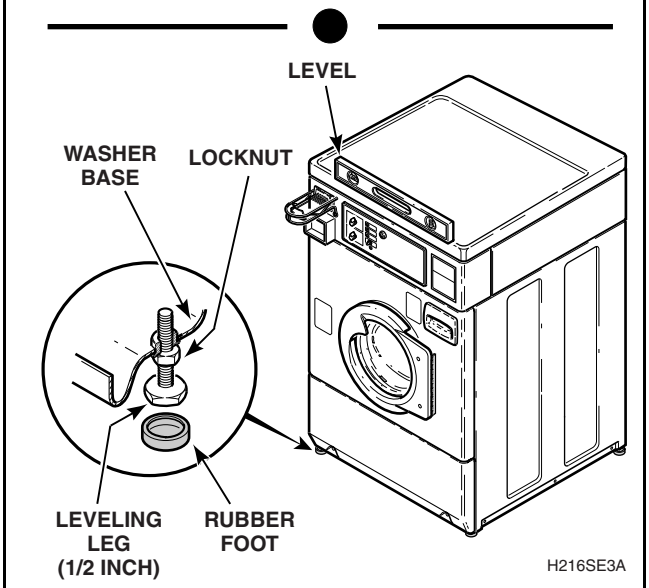
Use of the dispenser drawer or washer door as a handle in the transportation of the washer may cause damage to the dispenser or door.

W185

d. Remove rubber feet from accessories bag and place on all four leveling legs. Refer to *Figure 45*.



MODELS WITH THE LETTER "E" IN THE EIGHTH CHARACTER OF THE MODEL NUMBER



MODELS WITH THE LETTER "H" OR "J" IN THE EIGHTH CHARACTER OF THE MODEL NUMBER

Figure 45

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

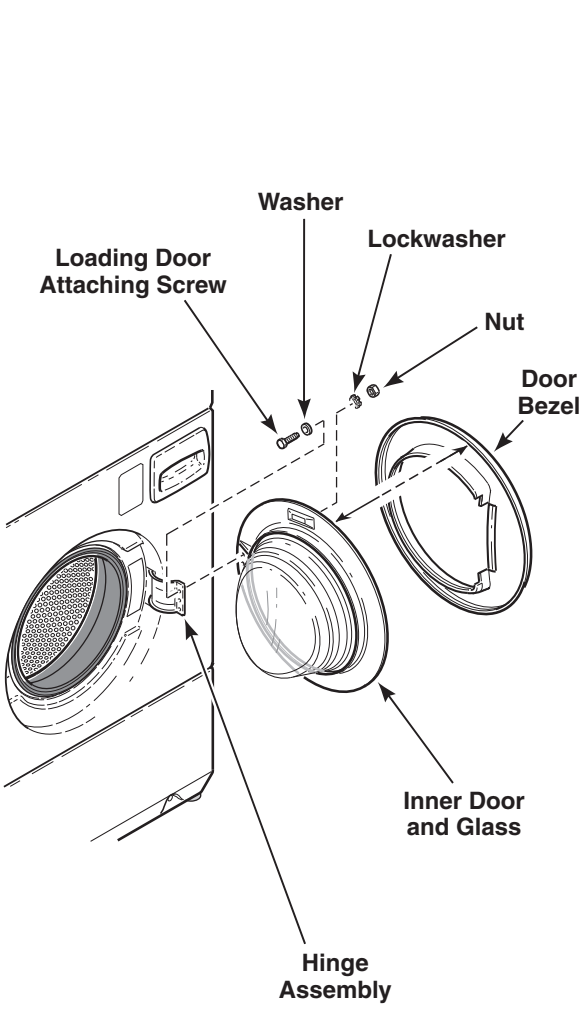
W003

64. LOADING DOOR

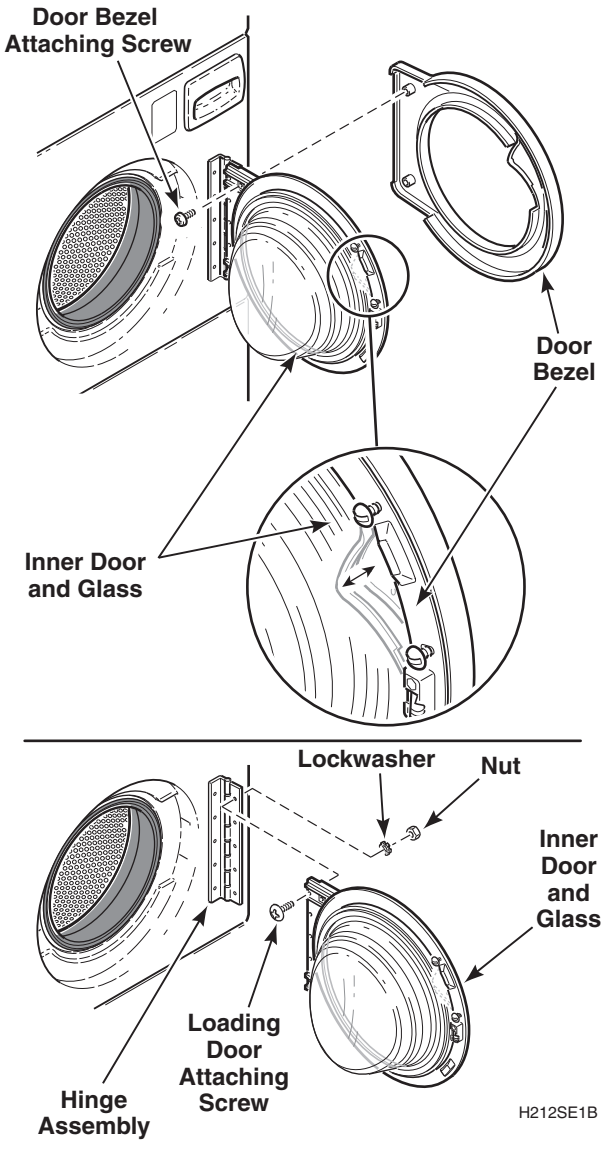
a. Open loading door.

b. Remove door bezel to gain access to nuts. Refer to *Figure 46*.

c. Remove screws, washers and nuts holding loading door to hinge assembly and remove door. Refer to *Figure 46*.



MODELS WITH THE LETTER "E" IN THE EIGHTH CHARACTER OF THE MODEL NUMBER



MODELS WITH THE LETTER "H" OR "J" IN THE EIGHTH CHARACTER OF THE MODEL NUMBER

Figure 46

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

65. MOTOR BELT TENSION

NOTE: Belt adjustment procedures are done through front of washer, however, as an option, washer can be moved from its location and belt adjustment can be done through lower access panel opening at rear of washer.

a. While supporting lower front access panel, remove two screws from bottom edge of access panel and remove panel. Refer to *Figure 26*.
b. Working through the lower front access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Refer to *Figure 47*. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 47*.
c. Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 47*.
d. After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 47*.

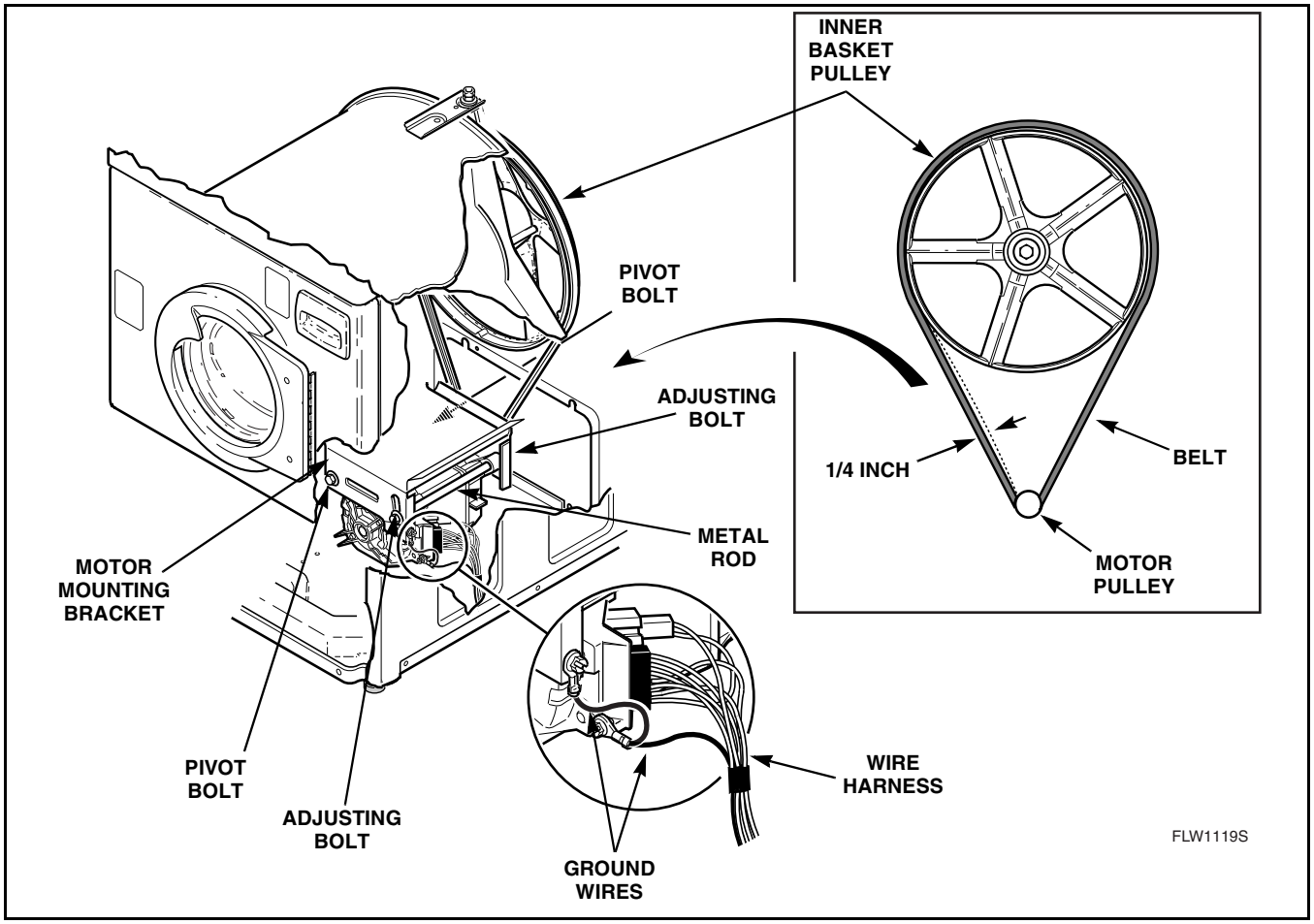

Figure 47

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WARNING

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

66. DOOR CATCH

NOTE: When repairing a broken or inoperative No. 685430 Door Catch, proceed as follows:

a. Remove door bezel.
b. Remove two screws and nuts holding door catch to door and remove door catch.
c. Install new door catch and tighten screws and nuts to the point of being snug.
d. Adjust door catch so the outside edge is aligned with the edge of the latch. Refer to *Figure 48*.
e. Visually check that the door catch properly engages the funnel of the door latch/switch assembly. Refer to *Figure 48*.
f. Recheck the alignment in step “d”. Adjust if needed.
g. Torque the two nuts to approximately 30 inch pounds (3.4 Nm).
h. Reinstall door bezel.

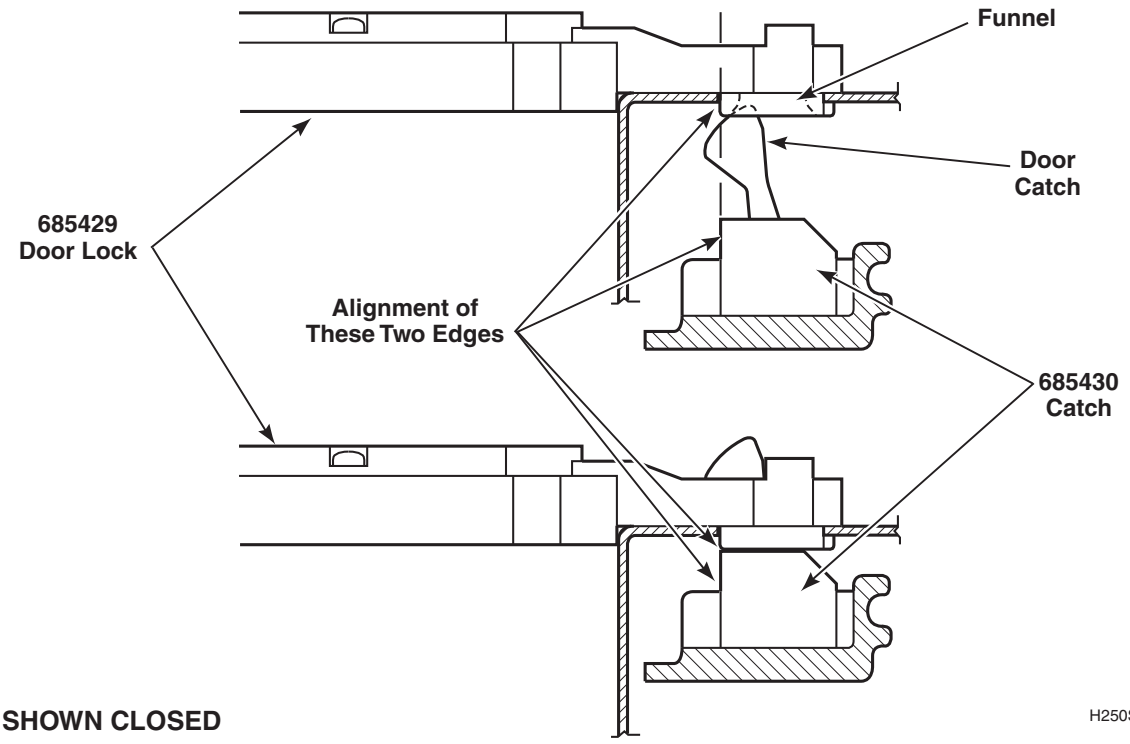

Figure 48

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WARNING

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

67. CLEANING NON-ELECTRONIC COIN DROP

a. Disconnect electrical power to machine and drop.
b. Remove coin drop from machine.
c. If lint is preventing coins from rolling through coin drop, blow compressed air though coin entry and along the side of the coin drop. Refer to *Figure 49*.

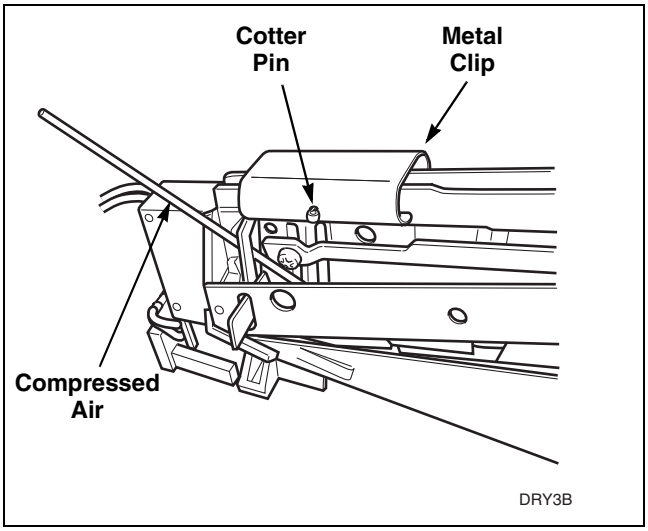

Figure 49

d. Insert a coin through the coin drop. If coin does not roll through drop, continue with the following.
e. Remove cotter pin from top of drop. Refer to *Figure 49*. Save pin for reinstallation when cleaning is complete.
f. Move metal clip closer to sensor so that it comes off frame. Refer to *Figure 49*.
g. Remove coin return from coin drop frame. Refer to *Figure 50*.

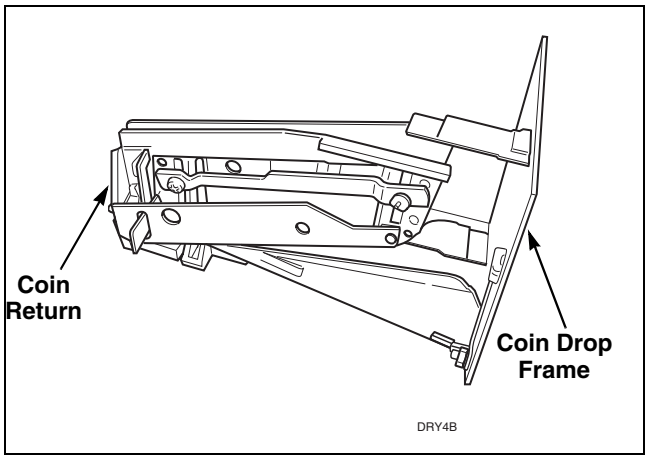

Figure 50

h. Check coin path in coin drop for lint and residue. If lint or light residues are present, use a cotton swab to remove. If heavy residue is present, it may be necessary to first scrape off excessive residue and then use a cotton swab dipped in water or isopropyl alcohol (rubbing alcohol) to remove remainder of residue. Refer to *Figure 51*.

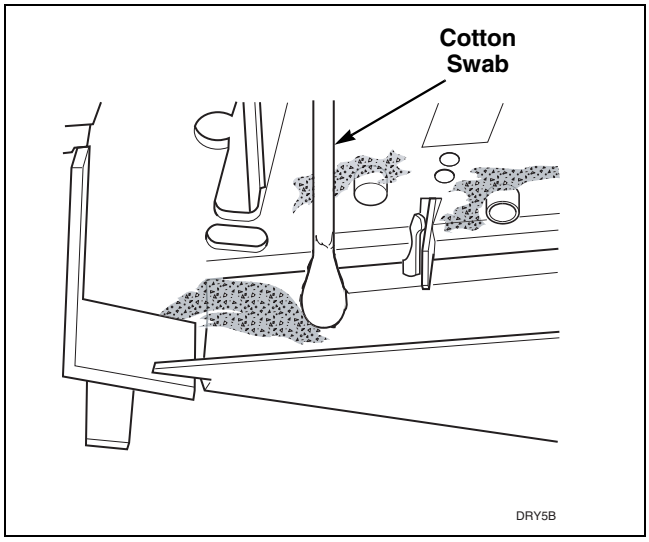

Figure 51

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

i. Check coin return pendulum to verify it swings freely. If pendulum does not swing freely, spray pendulum pivot point with Teflon based lubricant and move pendulum back and forth two to three times. An additional application of Teflon based lubricant may be necessary to ensure that pendulum swings freely. Refer to *Figure 52*.

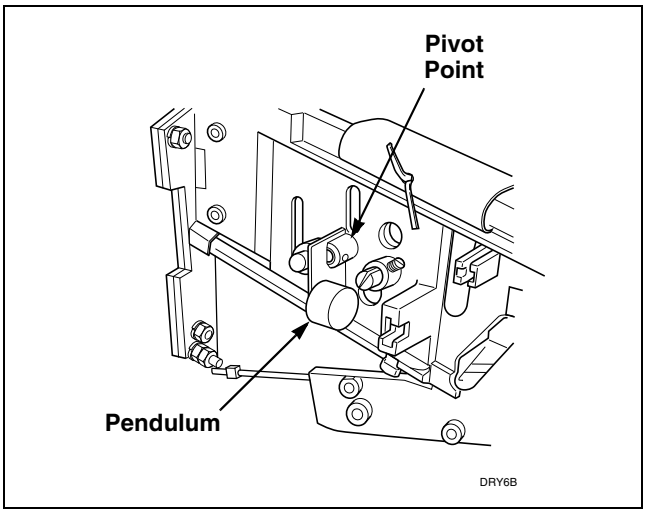

Figure 52

j. Check coin drop sensor for dust or dirt on eyes. Wipe eyes with dry cotton swab. Refer to *Figure 53*.

IMPORTANT: DO NOT use isopropyl alcohol to clean electronic sensor or eyes.

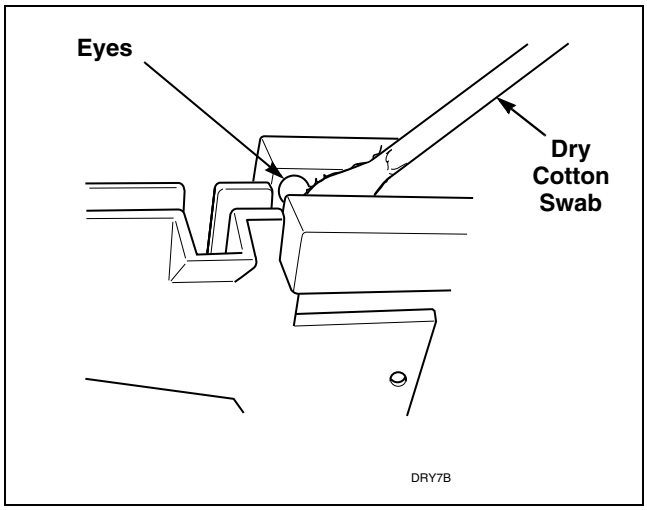

Figure 53

k. Reinstall coin return on to coin drop frame.
l. Reinstall metal clip and slide towards coin insert slot. All cotter pin holes must line up.
m. Reinstall cotter pin.
n. Place drop on level surface to verify that coins follow correct path in drop. It may be necessary to lift drop to allow coin to follow through sensor.
o. Reinstall coin drop into machine.
p. Reconnect electrical power to machine and drop.
q. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

NOTE: If coin drop does not operate properly after above steps have been completed, corrosion of metal or vandalized components within coin drop may be preventing the coin drop from functioning correctly. Replace coin drop.

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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

68. CLEANING ELECTRONIC COIN DROP

NOTE: The electronic coin drop should be cleaned once a year. Clean the drop more often if it is exposed to high levels of residue or lint build-up.

a. Disconnect electrical power to machine and drop.
b. Remove coin drop from machine.
c. Move spring downward until cover catch is free. Refer to *Figure 54*.

NOTE: Do not lift or overbend the spring in any direction.

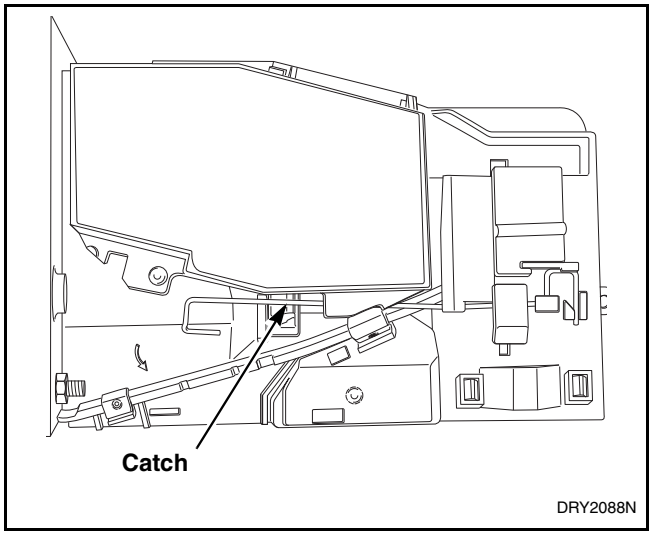

Figure 54

d. Open cover for coin drop. Refer to *Figure 55*.

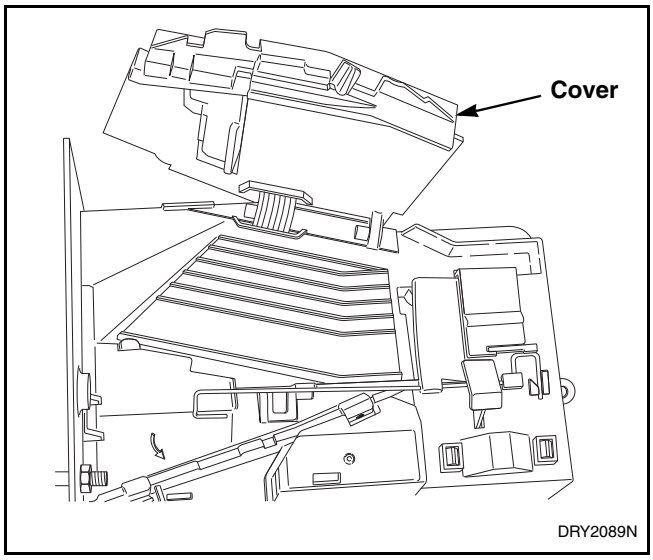

Figure 55

e. Clean the coin path with a soft brush and wipe exposed surfaces with an alcohol moistened cloth. Refer to *Figure 56*.

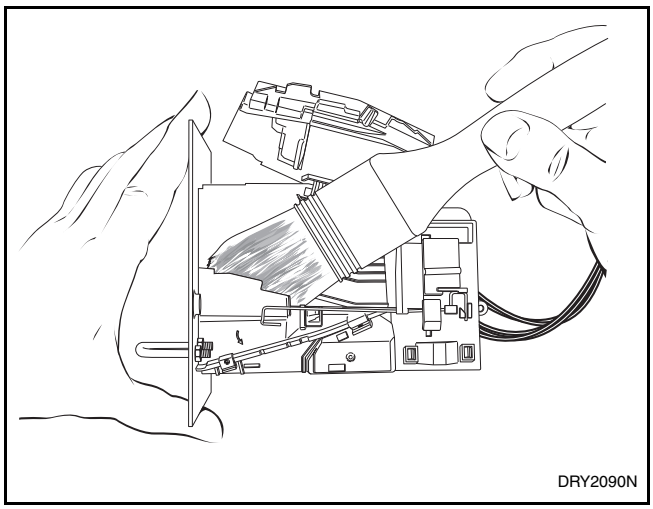

Figure 56

f. Clean residue from coin rail with an alcohol moistened cloth. Refer to *Figure 57*.

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WARNING

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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

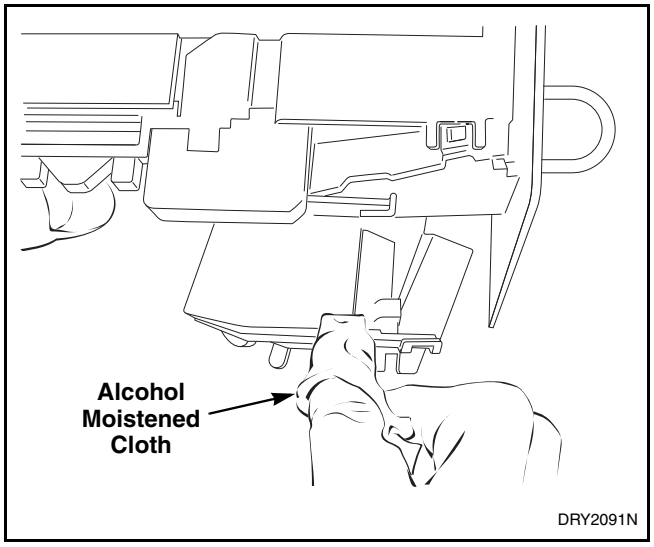

Figure 57

g. Clean light sensors with a soft brush or air spray duster. Refer to *Figure 58*.

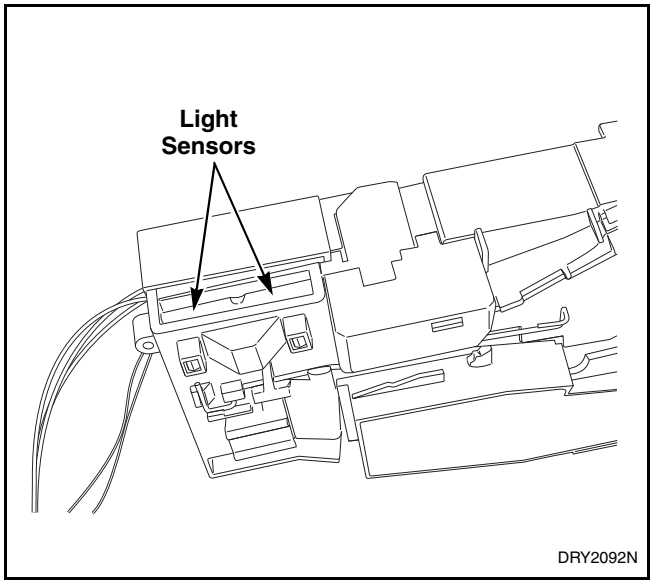

Figure 58

h. Close cover for coin drop.
i. Move spring back over cover catch.
j. Reinstall coin drop into machine.
k. Reconnect electrical power to machine and drop.
l. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

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